Agile Australia 2016

### CAREER GROWTH WITH IMPACT

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### BAGS **GIFT CERTIFICATES**



### 





### 2009...2010







### 2009...2010...2011







# 2009...2010...2011...2012





## 2009...2010...2011...2012...2014





Image: http://www.redbubble.com/people/cglenn/works/983330-a-fish-out-of-water



# FAIRNESS & TRANSPARENCY

Contraction of the second





Image: http://www.redbubble.com/people/samisarkis/works/7889308-silhouette-of-weighing-scales

## WHAT DOES CAREER GROWTH MEAN?





Image: http://www.redbubble.com/people/mathiole/works/12417688-the-optimist

### EXPERIENCE BASED

Graduate, junior, mid, senior, ...
What does "senior" mean?
Not explicit what is required to grow
Salary bands, often overlapping

Image: http://www.redbubble.com/people/milesmoody/works/4518426-angel-oak-arms-open-wide



Alert! This ancient trifle retri wed i om se foel a Softwarchi R's will-paf its exp i tion date. Proceed with care.

### Joel on Software **Fog Creek Professional Ladder** by Joel Spolsky

### Friday, February 13, 2009

The Fog Creek Professional Ladder determines your base salary. It is recalculated every August, and new base salaries go into effect September 1st (you'll see it on the September 15 paycheck).

Currently, the professional ladder is used for:

- Software developers
- Software QA/Testers
- System Administrators

Your career level at Fog Creek is determined as a function of three things: experience, the scope of your job, and your skills.

### Experience

Definition: Years of full-time experience developing and testing software or administering computer systems.

This includes things like:

software development/programming user interface design managing software teams

See this and other great job listings on the jobs page.



Wanted: Senior .NET Developer at stratton (Port

Melbourne, Australia).

Software Development/Leadership Ladder, multi-track, public

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8 Y -

# RENT THE RUNWAY

_	A	В	C	D
1				
2		Dex	Str	Wis
3		Technical Skill	G(et)S(tuff)D(one)	Impact
4				
5	Engineer I (<1-2)	Broad knowledge of core CS concepts. Focus on growing as an engineer, learning existing tools, resources and processes	Develops their productivity skills by learning source control, editors, the build system, and other tools as well as testing best practices Capable of taking well-defined sub-tasks and completing these tasks	Developing knowledge of a single component of our architecture
6				
7		Writes correct and clean code with guidance; consistently follows stated best practices Participates in technical design of features with guidance	Makes steady progress on tasks; knows when to ask for help in order to get themselves unblocked	Self-sufficient in at least one large area of the codebase (multiple services in a pillar, all frontend code related to a main funnel flow) with a high-level understanding of other components
8	Engineer II (2-6+)	Rarely makes the same mistake twice, begins to focus on attaining expertise in one or more areas (eg, Java/JS/Ruby/iOS development, performance best practices, efficient use of data stores, messaging, etc). Learns quickly and makes steady progress without the need for constant significant feedback from more senior engineers.	Able to own small-to-medium features from technical design through completion; Capable of prioritizing tasks; avoids getting caught up in unimportant details and endless "bikeshedding"	Capable of providing on-call support for their area including systems that they are not familiar with
9				

=

Persistent in the face of roadblocks:



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Cha	
Communication & Leadership	NOTES
Effective in communicating status to the team	
Exhibits RTR's core values, focuses on understanding and living these values	
Accepts feedback graciously and learns from everything they do	-
Gives timely, helpful feedback to peers and managers	This is a big role.
clarification on tasks up front to minimize the need for rework	some of the basic requirements.
Solicits feedback from others and is eager to find ways to improve	
Understands how their work fits in to the larger project and identifies problems with requirements	
Communicates technical decisions	

# COGENT

	Experience	Level	Salary		Engineer
			Calary	Skills	Responsibility
Graduate	None	0			
					Self
		2	••••		
Junior	1+ years.	3	••••		
					Story
		7	••••		
Mid-level	Usually 3+	8			
	years.				Domain
		11			
Senior	Usually 5+	12			
	years.				Team
		19	••••		
Business	Usually 10+	20			
Influencer	years.				Customer
		24			

	Exportionoo	Loval	Engineer	
			Skills	Responsibility
Mid- level	Usually 3+ years.	11		
Senio	r Usually 5+ years.	12	Good working knowledge of software architectural design patterns and their applicability to solutions. Strong working knowledge of software design patterns and SOLID (or equivalent) principles to create well designed software.	Domain Leader. Frequent full responsibility for successful contribution by that domain area. Seeks out ways to develop and improve team, communicates at a high level internally and with customers, ensures that domain delivers toward the project outcome.
Senior	Usually 5+ years.	14		
C REC	BUBBLE	15		

	Exporionoo		Engineer	
	Experience	Levei	Skills	Responsibility
Mid- level	Usually 3+ years.	11		
		12		
	Usually 5+ years.	13		
Senior		14	Can articut and cont	late the business ributes to the wid tear
C REE	BUBBLE	15		

### s value of the team's work ler business goals of the m.





	Individual C	Contributo	r
ennikarinen: siguna			
portant	propiems	5,	

	Exporionco		Engineer
	Experience	Levei	Skills Responsibility
			Team Contributor Indiv
Mid- level	Usually 3+ years.	11	
	Usually 5+ years.	12	Introduced pre-estimation analysis work to care as having external dependencies, folded this we the team's estimation process.
		13	A team member suggested that we do a whole when picking up a card from the backlog to bet
Senior		14	understand the cards. They then followed up or next iteration to make sure it was happening.
		15	
	DUBBLE		

dual Contributor	Examples
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# THE ROLL-OUT

SA 4259

Image: http://www.redbubble.com/people/mathiole/works/12417688-the-optimist

# ACHIEVEMENTS

- Fairness & transparency
- More objective salary determination
- Clearer path to career growth
- Career track that doesn't include people management

Image: http://www.redbubble.com/people/reneerigdon/works/15883290-sock-monkey-trophy









# REFINEMENTS



Image: http://www.redbubble.com/people/richcaspian/works/11756612-paradise-galaxy-dream



# PROBLEMS

- Too restrictive skills & responsibilities coupled
- Dimensions of growth are not explicit
- Assessment of non-generalists



## OUR MODEL

	Experience		Engineer				
	Experience	Levei	Skills	Responsibility	Examples		
				Team Contributor	Individual Contributor	Examples	
Mid- level	Usually 3+ years.	11					
		12					
		13					
Senior	years.	14		Samanan and an			

# OUR MODEL





# GROWTH







# GROWTH





## SKILL TRAITS

	Experience		Engineer				
	Experience	Levei	Skills     Responsibility		Evamples		
				Toom Contributor	Individual Contributor	Examples	
Mid-	Usually 3+	8	Has been on multiple multiple areas of deliv	Has been on multiple projects, and is able to contribute effectively in multiple areas of delivery.			
	ycars.	11	Has been involved in one or more projects end to end, and contributed to all aspects.				
		12	Has comprehensively work on multiple proje				
		15	Has been involved in multiple successful deliveries, including being instrumental for key aspects.				
Senior	Usually 5+ years.	20	Has been critical on shipping many high quality and successful projects.				
C RED	BUBBLE	14					

### EXAMPLE

Software craft Practicalities of building high quality, maintainable software; languages, code quality, code architecture, patterns, principles, etc.

None - 0	- No skills in building & maintaining software.
Novice - 1	<ul> <li>- University degree or equivalent experience.</li> <li>- Knows a single programming language.</li> <li>- Has an ad hoc personal development process.</li> <li>- Just starting out with learning basic delivery skills.</li> <li>- Unit testing, class design, basic patterns etc.</li> <li>- Has created production-ready output regularly under guidance; pairing, pull requests with close attention etc.</li> <li>- Limited commercial experience, likely 1-3 years.</li> </ul>
Advanced beginner - 2	<ul> <li>Has solid foundations for work. Can tackle straightforward pieces of work, and have them reasonably well designed and tee</li> <li>Has implemented components of work (feature areas) with occasional guidance, using key concepts. Supported for more of</li> <li>Skills forming across multiple languages; Ruby, Javascript, Objective-C, Swift, Java, Scala, Clojure, etc.</li> <li>Can work comfortably across development tools including editors, testing frameworks, SCM, Cl, deployment, etc.</li> <li>Makes effective use of source control management in git.</li> <li>Bundles work into pull requests &amp; seeks out code reviews from more experienced engineers.</li> <li>Requires guidance from more senior engineers.</li> <li>Forms and vocalises an opinion on how to solve specific localised problems in area of expertise.</li> <li>For example, technical design for several stories; or regularly helps a colleagues to solve an implementation problem.</li> <li>Likely 2-5 years experience.</li> </ul>
Practitioner - 3	<ul> <li>Has comprehensively covered all aspects of product delivery through work on multiple projects, and is able to contribute e</li> <li>Writes correct and clean code with guidance; consistently follows stated best practices.</li> <li>Has been involved in one or more projects end to end, and contributed to all aspects.</li> <li>Breaks work into small, self contained units, that are individually commitable such that pull requests are easy to interpret.</li> <li>Enables the technical foundations of a new project to get a delivery team up and running.</li> <li>Likely 5+ years experience.</li> </ul>
Proficient - 4	<ul> <li>Recognised within the technology team as the go-to expert in one technical area of the codebase; understands the broad a</li> <li>Learns new tools, techniques or technologies to help shape new opportunities for the business.</li> <li>Understands &amp; can articulate the cost/benefits of technical practices against short &amp; long term goals.</li> <li>Has been involved in multiple successful deliveries, including being instrumental for key aspects.</li> <li>Likely has has 7-10 years experience.</li> </ul>
Expert - 5	<ul> <li>Has a record of creating sweeping improvements in stability, performance, and scalability across major business-critical sy</li> <li>Identifies and proactively tackles technical debt before it grows into debt that requires significant up-front work to resolve.</li> <li>Has made an obvious positive impact on the entire company's technical trajectory.</li> <li>Has developed sufficient expertise to consult on software or experiment designs from other engineering teams. This feedba of work or it turns key projects from failures into successes.</li> <li>Identifies critical business opportunities and works closely with other areas of the business to complete them.</li> <li>Builds tools and abstractions that multiply the output of the engineering teams around you.</li> <li>Helps build out onboarding and mentoring programs to teach and train other engineers, to make them significantly more variable to the soft of experience.</li> </ul>

ested. challenging pieces of work.

effectively in multiple areas of delivery.

architecture of the entire system.

/stems.

back is valuable enough that it shaves days or weeks worth

valuable members of the team.

Band	Graduate		Junior					Mid-Level						
SRM Indicative Scale	0	1	2	3	4	5	6	7	8	9	10	11	12	
Role														
TRAITS									)					
Building														
Software craft	1	1	1	1	1	2	2	2	2	2	2	3	3	
Software testing	0	1	1	1	1	2	2	2	2	2	3	3	3	
Data modelling & system architecture	0	0	0	0	1	1	1	2	3	3	3	3	3	
Analytical thinking	12	1	1	1	1	1	<u>. 1</u>	1	1	2	2	3	3	
Indicative average	0.50	0.75	0.75	0.75	1.00	1.50	1.50	1.75	2.00	2.25	2.50	3.00	3.00	33
Specialties														
Infrastructure & tooling	0	0	0	0	1	1	1	1	1	2	2	2	3	
Security	0	0	0	0	0	0	0	1	1	1	2	2	2	
Data analysis	0	0	0	0	0	0	1	1	2	2	2	2	2	
Indicative average	0.00	0.00	0.00	0.00	0.33	0.33	0.67	1.00	1.33	1.67	2.00	2.00	2.33	
Practices		-												
Agile practices	0	0	1	1	2	2	2	2	2	2	2	3	3	
User research	0	0	0	0	0	0	0	1	1	1	1	1	2	
Practice Improvement	0	0	0	0	0	0	1	1	2	2	2	2	3	
Indicative average	0.00	0.00	0.33	0.33	0.67	0.67	1.00	1.33	1.67	1.67	1.67	2.00	2.67	- 3
Communication and engagement													222	
Communication	0	1	1	1	1	2	2	2	2	2	2	2	2	
Team engagement	0	0	1	1	1	1	2	2	2	3	3	3	3	
Stakeholder engagement	0	0	0	1	1	2	2	2	2	2	2	3	3	
Work management	0	0	1	1	1	1	1	2	2	2	2	3	3	
Motivation / Proactivity	0	0	1	1	1	1	1	1	2	2	2	2	2	
Representation	0	0	0	0	0 000	0	0	0	0	0	0	0	1	3
indicative average	0.00	0.17	0.67	0.83	0.83	1.17	1.33	1.50	1.0/	1.83	1.83	2.17	2.33	1
Leadering							22014							
Mentoring	0	0	0	0	0	1	1	1	1	1	2	2	2	
Leadership	0	0	0	0	0	0	1	1	1	1	1	1	1	
Product thinking	0	0	0	0	0	0	0	0	0	0	3	2	2	
Indicative average	0.00	0.00	0.00	0.00	0.00	0.33	0.67	0.67	0.67	0.67	1.33	1.67	1.67	10
Business														
Strategic thinking	0	0	0	0	0	0	0	0	0	0	1	1	1	
Commercial awareness														4

### REFINEMENTS?





# STOP

Image: http://www.redbubble.com/people/cetrone/works/7284258-hammer

## IMPACT MODEL







PERSONAL DEVELOPMENT

### IMPACT RADIUS





### BUSINESS

### WEB PRODUCT

- PILLAR
- TEAM
- INDIVIDUAL

### OUR CURRENT MODEL

A	В	С	D	
	Impact Radius	Level	Impact	
	Influences their delivery team.	11	Improved focused conversations within the team and with stakeholders in relevant areas of expertise.	Has communication skills that enable pro stakeholders.
		12	Contributed effectively to all aspects of the team's product delivery (what the team delivered is better).	This level is concerned with improving the the product the team builds better.
	r Team leader Is a leader within their delivery team.	13	Coordinated team activities. Improved the functioning of the team (how the team works, is better).	Starting to take partial ownership of small retros, owning smaller projects within the Works with other members of the team to & actions new ways to run retros, champi This level is concerned with improving the
Senior		14	All members of the team are aware of the value of the team's work. Improved team objectives. Effective balance of short vs. long term delivery tradeoffs.	Actively helps others understand the busi contributes to the objectives of the team. Contributes positively to the creation of the metrics, etc.
		15	Improved the team's delivery capability. Stakeholders are aware of the team's objectives, work & status.	Influences whole team, communicates wir responsibility for technical delivery of des
		2		



ductive discussions not only within the team, but also with

e team's work/delivery capability, the impact relates to making

issues or activities within the team. For examples running team.

improve the way they work collectively. For example suggests ions pair swapping, introducing team 1-1s, etc.

e team's process. iness value of the team's work and how their individual work

he team's objectives, helping to influence their creation, correct

is of practices, e.g. unit testing, technical debt.

ith all levels of stakeholders, has successfully held full sired key outcomes, and has done this on multiple projects.

# WHERE ARE WE NOW?

Image: http://www.redbubble.com/people/doctorwu/works/11012867-superconductor



### CONTINUOUS IMPROVEMENTS







## ISSUES

Image: http://www.redbubble.com/people/mibreit/works/9305826-sunshine



# RECRUITMENT

hip

- Explain and send the model to candidate
- Assessment session

Image: http://www.redbubble.com/people/baggelboy/works/17114926-cafe-culture



# CAREER GROWTH



# BENEFITS

- Team movement
- Improved retention



## OTHER APPROACHES

- Cogent
  - Martin Andrews Open Salaries Talk at Spark the Change, Melbourne, 2015
- Fog Creek (Joel Spolsky)
  - How do you compensate programmers?
  - Fog Creek Compensation
  - Fog Creek Professional Ladder
- Spotify
  - Building a technical career path at Spotify
  - Spotify Technology Career Steps
- **Rent the Runway <u>Sharing Our Engineering Ladder</u>** •
- **Chartbeat Engineering Ladders Helping Engineers Along Their Way**
- Artsy Artsy's Engineering Compensation Framework •







## FOCUS ON WHAT CREATES THE MOST IMPACT. YOUR CAREER SUCCESS AND GROWTH WILL FOLLOW.

@redbubble\_tech