Matthew McKay

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Evnerience

	Experience
April 2016 – Present	Software Development Engineer II, Amazon.com, Inc., Seattle, WA.
July 2014 –	Software Development Engineer I, Amazon.com, Inc., Seattle, WA.
April 2016	 Supply Chain Optimization Technology, Topology Team - Developed a full-stack AWS service for running high level optimization models of Amazon's warehouse network
	 Consumer Engagement, Sonar Team - Worked on the systems used for rendering and sending the hundreds of thousands of daily customer notifications from Amazon
Fall 2013 -	Research/Senior Thesis, Carnegie Mellon University, Pittsburgh, PA.
Spring 2014	 Worked on a methodology for verifying the correctness of a compiler phase by using a shared language to allow for compiled code to be verified against its source code
Summer 2013	Software Engineering Intern, Shopkick, Redwood City, CA.
	o Implemented M-commerce features to allow purchases in both Android and iOS apps
	 Implemented server support for M-commerce, including pulling down transaction information and processing it
Fall 2012 -	Research/Independent Study, Carnegie Mellon University, Pittsburgh, PA.
Spring 2013	o Implemented a static verification checker for the language C0 using Z3 theorem prover
	 Checks for array index out-of-bounds accesses, null-pointer dereference, arithmetic errors (like division by zero) by using knowledge from loop invariants and contracts
Summer 2012	Software Engineering Intern, Google, Mountain View, CA.
	 Implemented advanced search features in the YouTube Video Manager, and worked on adding customization to the new Dashboard
Fall 2011 –	Teaching Assistant for Principles of Functional Programming, Carnegie Mellon
Spring 2012	University, Pittsburgh, PA.
	 Helped teach and guide students through learning functional programming with SML

Education

2010 - 2014Bachelor of Science in Computer Science (Minor in Mathematics), Carnegie Mellon University (Class of 2014), Pittsburgh, PA, GPA: 3.97/4.0.

o Taught recitations, wrote homeworks, held office hours, graded papers

High School Diploma, Poolesville High School Science, Math, & Computer Science 2006 - 2010Magnet Program, Poolesville, MD, GPA: 3.88/4.0, Weighted: 4.75/5.0.

Skills

Java, Python, SML, C, Javascript Languages **AWS Services** DynamoDB, S3, Lambda, ECS, Software Git, Linux, Vim, IntelliJ CloudFormation, API Gateway