Dylan Rush

dylanhrush@gmail.com
www.dylanhrush.com
443 504 5698

Senior software developer with eight years of industry experience in a wide variety of business and engineering domains. Looking for a challenging software development position with high customer impact and opportunities to grow my skill set.

Work Experience

Amazon.com: Software Development Engineer 2012-2017
Senior Software Development Engineer 2017-Current

2012-2015 eCommerce Platform Retail backend and security systems	Contributed to high throughput web services powering the Amazon.com mobile website and mobile application. Owned AWS account registry belonging to Amazon retail organizations (7000+ accounts). Developed service for distribution of ephemeral credentials to grow internal company adoption of AWS. Developed system for passive security scanning of AWS resources. Developed company-wide encryption key distribution service and local daemon, interop capability between C++ process and Java clients using JUnixSockets. Mentored and grew sister team in Hyderabad
2015-2018 AWS Marketplace New business initiatives, financial, security domains	**Authored press release, reviewed with CEO and executive team**. Proposed, designed and implemented new business strategy in AWS Marketplace (SaaS Subscriptions) now with 660 software applications registered to date. Designed and implemented strategy for authenticating AWS customers with external web applications. Designed, developed, owned, wrote external documentation for several APIs in the external AWS SDK for financial metering and contracts. Developed billing systems for AWS SageMaker Marketplace, with 248 products registered. Documented plan to expand AWS Marketplace to many other domains. Mentored sister team in Berlin
2018-Current Alexa Smart Home Machine Learning	Contributed to machine learning systems in Smart Home: Hunches, Did You Mean. Developed experimentation strategy for the Smart Home domain. Lead design reviews, mentored several engineers, consulted across several teams. Influenced scale, adaptability, operational stability of Smart Home systems.

Expertise

Comfortable in all languages and development environments.
Most recent experience in Java, Python, JavaScript, Linux
Systems and application design, prototyping, documentation, Amazon Web Services (AWS) and cloud technologies, distributed systems, mentorship, Agile development, test-driven development, project management. Comfortable working with external companies and clients.
Some experience with machine learning problems using TensorFlow, Scikit, Pandas, numpy, SageMaker, Jupyter. Understanding of ML concepts.

Internship

Co-op Intern at Bentley Systems, Inc August 2010 - August 2011
Contributed to new features in the company's flagship software. Helped port .NET features to native C++ libraries and developed interop layer using C++/CLI and Visual Studio.

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Education

Lehigh University Bachelor of Science, Computer Science and Engineering, 2008 – 2012
Rossin Junior Fellows engineering society. Dean's List Summer 2010 through Fall 2012. Theta Xi fraternity.

More

Hobbyist engineering and art projects can be found at dylanhrush.com

U.S. Patent 9491115 "Providing service using run local daemon" A method for distributing webservice logic across multiple unspecialized servers.

Make Magazine Feb/March 2015 "The Stuff of Thought" art project built using Arduino.

Private Pilot's license and regular flyer.