Maxwell Burggraf

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Seattle, WA

Experience

Amazon Kuiper
Redmond, WA

Software Development Engineer II — Nov 2022 – present
- Designed and implemented major portions of Kuiper's cloud-based hardware-in-the-loop test execution and host management system. The system led to massive improvements in test venue utilization and allowed automated testing in CI-CD pipelines across Kuiper
- Assisted dozens of teams across Kuiper create CI-CD pipelines that fully automate the build, test, and release process for embedded satellite and ground software

Amazon Web Services
Seattle, WA

Software Development Engineer II — April 2020 – Nov 2022
- Led several features to completion, such as private repository support for Lightsail Containers and a major Windows instance security improvement
- Developed and maintained microservices that meter usage and ensure accurate billing for Lightsail customers. These systems were designed to continuously scale and operate on hundreds of thousands of lines of data per day
- Co-developed Lightsail's Containers feature, a simplified container hosting offering
- Made several internal operational improvements to minimize the team's operational burden, which led to increased productivity on new products and features
- Mentored and trained several new developers who quickly became productive members of the development team
- Designed and built major portions of an unannounced AWS service using Kotlin and a serverless state machine architecture

Software Development Engineer I — August 2017 – April 2020
- Assisted with several customer-facing Amazon Lightsail features, such as Disks, Databases, Load Balancers, and Windows Instances
- Designed, built, and maintained a system that notifies Lightsail customers of important events that impact their resources. Continuously made improvements to the system to help customers receive notifications as fast as possible

Software Development Engineer Intern — May 2016 – August 2016
- Assisted with the development of Amazon Lightsail, a new AWS service
- Delivered a full-stack Node.js application that assisted with backend development of the service

Syracuse University
Syracuse, NY

Undergraduate Research Assistant — May 2015 - August 2015
- Assisted graduate students in developing a new, semantics-aware Android malware detection tool

Teaching Assistant, Intro to Computer Science, Intro to Systems Programming — August 2014 – May 2016
- Guided classes of up to 60 first and second-year Computer Science students during in-class activities

The Daily Orange
Syracuse, NY

IT Manager — August 2014 – May 2017
- Member of Board of Directors
- Co-managed website design and development

Education

Syracuse University
Syracuse, NY

Bachelor of Science, Computer Science — May 2017

Skills

- Languages: Go, Java, Kotlin, JavaScript, C/C++, C#, Python, Ruby, Swift, SQL, LaTeX
- Technologies: Automated software testing, Continuous Integration pipelines, Infrastructure as Code (AWS CDK, Terraform), Git, Containers, Docker, Agile and Scrum methodologies, rich experience in many AWS services including: DynamoDB, SQS, SNS, EC2, ECS, Lambda, CloudFormation
- 6+ years of 24/7 operational support on-call experience to maintain a high bar for software quality
- Excellent written and verbal English communication skills