Jared Loomis

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Professional Experience

Freelance Software Engineer   Nov. 2020 - Present

- Design and implement software solutions to solve clients' problems.

Amazon / Software Development Engineer   Dec. 2019 - Nov. 2020

- Develop AWS-based cloud services to support a new Amazon product.
- Contribute to product design and implementation in the context of a startup-style team.
- Manage and monitor infrastructure deployments.

Skills used: Infrastructure as code (CDK), Java, React, Python, DynamoDB, AppSync, GraphQL, ECS, SQS/SNS, Lambda, CloudWatch

Airspace Technologies / Software Engineer in Test   Jan. 2019 - June 2019

- Implement an automated testing framework to achieve the company goal of sub-hour regression tests for their critical logistics service.
- Develop processes and tools to ensure scalability of automation through the near future.

Skills used: Java, JavaScript, Selenium

Workwell Technologies / Software Engineer in Test   Aug. 2015 - Aug. 2018

- Transition company from entirely manual testing practices, to relying primarily on automated tests. Accomplished a >50% reduction in release times for two products.
- Train a team of entry-level engineers to develop tests and deliver on automation goals.

Skills used: Java, Appium, Selenium, Android, Node.js

Projects

Neurothink   2021

GitHub

Using PyTorch, trained a CNN-with-attention model to determine whether the wearer of an EEG headset has their eyes open or closed. Achieved 82% accuracy with a very small (<500 MB) dataset.

Declare QA   2019

GitHub

No-code automated testing platform using Node.js, React.js, and MongoDB.

Andromeda Programming Language   2015

GitHub

A programming language for graphics programming, based on typed second-order lambda calculus.

Education

Palomar College
2013 - 2016

Related coursework:
- Survey of Computer Science
- C Programming
- Data Structures
- C++ & Object-Oriented Programming

Skills

Languages

Java (Expert), Python (Expert), JavaScript (Expert), Node.js (Expert), bash (Intermediate), C++ (Intermediate), Kotlin (Advanced), Rust (Advanced), Scala (Advanced), Haskell (Expert), Ruby (Beginner)

Technologies

DynamoDB (Advanced), AppSync (Advanced), GraphQL (Advanced), OpenGL (Advanced), Linux (Expert), websockets, Lambda (Advanced), S3 (Advanced), PostgreSQL (Intermediate), MongoDB (Advanced), nginx (Beginner), HTTP/REST (Expert), distributed systems (Expert), RabbitMQ, LetsEncrypt SSL, Git, Vim, HTML, CSS, Jira, jQuery, SNS (Intermediate), SQS (Intermediate), PyTorch (Intermediate)

Techniques

Object-Oriented Programming, AGILE, full-stack web development, SPA, domain-specific language design (Expert), declarative programming, functional programming (Expert), MVC, Data Analysis, Data Visualization