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](https://github.com/jaredloomis/neurothink)

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](https://github.com/jaredloomis/declare)

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

Andromeda Programming Language 2015

[GitHub](https://github.com/jaredloomis/andromeda)

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