

Emiton Alves

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EDUCATION

University of Rhode Island, M.S. Computer Science, 3.6/4.0 GPA Kingston, RI | **August 2020**
Relevant Courses: Algorithms for Big Data, Object Oriented Programming, Data Structures, Machine Learning, Design and Analysis of Algorithms, Computer Architecture, Software Engineering Methodology

CareerDevs, 9 Month Programming Bootcamp Providence, RI | **December 2018**

University of Rhode Island, International Engineering Program Kingston, RI | **December 2016**
Bachelor of Science in Mechanical Engineering
Bachelor of Arts in German

Technische Universität Braunschweig, German Studies Brunswick, Germany | **August 2016**

EXPERIENCE

Amazon, Fullstack Software Engineer Westborough, MA | March 2020 – Present

- Developed monitoring framework designed to aid in CI/CD of tier-1 services
- Designed and re-architected legacy services into cloud-native applications
- Architected and built networking interface which allowed limited third-party access of in-house hardware. Application included mobile app and cloud-powered serverless backend
- Assisted in development of high throughput applications processing millions of requests using a microservice architecture
- Managed high severity incidents as a part of the on-call rotation which included investigation and remediation

URI/Massachusetts Disabled Persons Protection Commission, Mobile Developer Kingston, RI | August 2019 – March 2020

- Developed accessibility focused mobile applications designed to aid disabled populations in reporting abuse
- Conducted usability testing for mobile applications through workshops and questionnaires
- Rapidly designed wireframes and prototypes for research committee

Twitter, Software Engineering Intern Cambridge, MA | June 2019 – August 2019

- Created real-time ETL pipeline which consumed and processed client events
- Transformed billions of events daily and created simplified data structures for use by internal teams
- Deployed application on distributed cloud architecture using scalable practices
- Served data to dashboards and logging services for visualization and alerting purposes

FM Global, Software Engineering Co-op Johnston, RI | January 2019 – May 2019

- Created configuration tokenization script which automated environment configuration and reduced deployment time by 30%
- Modernized error monitoring system from email alerts to an internally accessible web interface for engineers
- Designed testing suite for document migration application

Continental Tires AG, Design Engineering Co-op Hannover, Germany | March 2016 – August 2016

- Developed and managed new polymer mixing process which led to higher elasticity of production polymers
- Drafted 3D CAD models for experimental manufacturing equipment undergoing testing in development
- Designed manufacturing layout in order to increase production throughput of polymer sheets by 100%

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, React, Angular, HTML, CSS, SASS, Python
Technologies/Methodologies: Git, GitHub, Amazon Web Services (AWS), REST APIs, Linux/Unix OS, SQL, Postgres, Kafka, JIRA, Agile, Scrum

PROJECTS

Stock Portfolio Monitoring Tool - (C#, Selenium WebDriver, SQL)

- A watchdog application which follows a user's stock portfolio and sends updates to user
- Periodic states of the user's portfolio are automatically recorded and saved to a database
- Ability to send updates via email or SMS

Virtual Machine - (C, Bash)

- A 32-bit virtual machine which was written from scratch and can run binary files
- Used bit manipulation to extract necessary data from incoming files

JPEG Image Compressor - (C, Bash)

- Applied a luminance-chrominance transform to reduce images to 30% of original size

TEACHING

Instructor - CS50, University of Rhode Island

Lead Tutor - Computer Science Diversity Program, University of Rhode Island

Head Teaching Assistant, Object Oriented Programming (CSC 211)