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
- Increased resiliency of tier-1 services by implementing monitoring, self healing data nodes, blue-green deployments, client caching, automated alerting, fully automated CI/CD, and chaos testing which led to 80% decrease in outages
- Designed and re-architected legacy monolith into AWS backed microservices in order to increase scalability and development speed. Service upgrades allowed for 20X increase in operational load
- Led development of networking mobile application for third party vendors. Application included mobile app and cloud-powered serverless backend
- Built reusable components for component libraries and worked closely with product team for implementations
- Handled service outages as part of the on-call. Used dashboards, logs, and client data to root cause failures and restore service

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
- Modernized error monitoring system from email alerts to an internally accessible web interface for engineers
- Created configuration tokenization script which automated environment configuration and reduced deployment time by 30%
- 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 using techniques from adjacent industries which led to higher elasticity of production polymers
- Drafted 3D CAD models for experimental manufacturing technology in R&D department
- Programmed Kuka robots used in the manufacturing of tires using additive manufacturing techniques

TECHNICAL SKILLS

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

PROJECTS

Kriolish.com, Crowdsourced Creole Translations - *(TypeScript, React, S3, Cognito, Lambda, Elasticsearch, DynamoDb)*
- Web application which provides search interface for the rare CapeVerdean creole language
- Users can create a profile, search for translations, submit translations, and rank the quality of translations
- Application uses serverless API and self-hosted Elasticsearch instance

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

TEACHING

Head Teaching Assistant, *Object Oriented Programming (CSC 211)*