

# Emiton Alves

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## EDUCATION

**University of Rhode Island, M.S. Computer Science, 3.45/4.0 GPA** Kingston, RI | **May 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

**Twitter, Software Engineering Intern - Data Infrastructure** 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 with one click scaling
- 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, C#, Scala, Python, React, HTML, CSS, JavaScript, MySQL

**Technologies/Methodologies:** Git, GitHub, Linux, Postgres, Kafka, Mesos, Aurora, Splunk, 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

**Personal Website - (HTML, CSS, JavaScript)**

- Portfolio website built with HTML, CSS, and vanilla JavaScript

## TEACHING

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

- Aided in the recruitment of underrepresented students in computer science
- Provided 1-on-1 tutoring for 200, 300, and 400 level computer science courses

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

- Led laboratory sessions focused on object-oriented programming concepts

**CS50 Instructor, University of Rhode Island**

- Orchestrated CS50 summer course targeted at helping struggling first year students from diverse backgrounds