Luke Brandon

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Development Skills

Web Developmet: JavaScript (4 years), **TypeScript** (3 years), **Node.JS** (3 years), **REST** (3 years) **React** (2 years), **Angular** (1 year), HTML, CSS
Application Development: Java (4 years), **C++** (3 courses)
Mobile Development: Android (1 course), **Java** (4 years, 3 courses), React Native
General Skills: Git (4 years), **Linux** (3 years), **Python** (1 course), **SQL** (1 course), AWS, Cloud Computing

Education

Honors College Bachelor of Science in Computer Science — December 2020
University of Arkansas, Fayetteville, AR — GPA: 4.0
Minor: Mathematics

Experience

Amazon AWS IoT Device Gateway Software Development Engineering Intern — Summer 2019

- Implemented distributed throttling solution using dynamic host discovery on a highly scalable Java service
- Gathered metrics to analyze distributed throttling performance and make better design decisions
- Wrote unit tests to ensure stable functionality of code in the future and to adhere to TDD principles
- Improved pub-sub client that allows publish and subscribe functionality from local machine to different environments for testing purposes

Recent Projects

Elos Smart Shoe Sole - Wearable Computing — Current

- Designing and building a wearable computing device recognizes certain gestures that allow the user to use their feet for any mapable computing task with the goal of becoming more efficient
- Utilizing technologies such are Arduino, an Android application,

Tissue Tracker Issue Tracker (tissuetracker.lukeb.dev) — Summer 2020

- Developed an issue tracker web application utilizing NextJS (React) and NestJS (NodeJS) frameworks. Allows for users to organize tasks and manage technical debt

Crowd-Source Machine Learning Data Model Labeling Android Application — Spring 2020

- Built a Java Android application to enable crowd-sourced data model training similar to Google Surveys or Recaptcha for companies to easily train machine learning models
- Developed using MVP design methodology to create cleaner code and support ease of scalability in the future, RESTful Web Services, and Firebase Cloud Messaging

Software Engineering Employee Checkout Web Application — Spring 2019

- Worked with team of student developers to implement a shopping cart and checkout application with Node JS Express backend, Angular web application, and PostgreSQL database
- Enabled employees to search products and maintain a shopping cart for a customer to make the checkout process much more efficient

Energy Saver Hackathon Project (24 Hours) — Spring 2019

- Worked with a team to develop an Angular web application and Node.js Express back-end designed to save money on electrical costs targeted towards factories and warehouses
- Allowed for remote powering of electrical devices and appliances from the web application using a microcontroller on-site and energy cost averages from a national API based on the location retrieved from a GPS module

Organizations

Association of Computing Machinery (ACM) Member — Fall 2018 - Present

- Involved in social and educational events for Computer Science students designed to improve developent skills as well as network

Fellowship College Registered Student Organiztion President — Fall 2017 - Spring 2019

- Organized on-campus social and outreach events for Fellowship Bible Church