Peyton Howell

peytonhowelle@gmail.com • 404-528-7875 • linkedin.com/in/peytonhowell

EDUCATION

Georgia Institute of Technology   August 2019 - December 2021

4.0 GPA, Bachelor of Science in Computer Science

Concentration in Information Internetworks and Modelling & Simulation

EXPERIENCE

Software Development Engineering Intern   May 2021 – August 2021

Amazon, Halo HealthTech

- Designed a performance and accuracy testing platform for machine learning models on mobile devices
- Developed an Android application in Kotlin to measure runtime performance of ML models
- Automated performance tests across multiple mobile devices using AWS Lambda, S3, Device Farm, dynamoDB, and other services; calculated accuracy related metrics in Python as part of this platform
- Created a dashboard to track performance across different ML Models, device models, and data sets

Software Engineering Intern   June 2020 – May 2021

J.B. Hunt Transportation Services

- Improved stability of an essential Java Spring Boot webservice by refactoring and writing unit and integration tests using Junits and Mockito
- Created a dynamic SQL query creator in Java to allow more complex searching with JDBC
- Developed internal interview management tool with Angular (TypeScript, HTML, SCSS) using PrimeNG, and interfacing with services using RxJS
- Developed an auditing feature for interview management tool in a Spring Boot webservice
- Improved latency of most used endpoints on a Spring Boot API by over 80% by implementing cache
- Migrated interview application from Microsoft Azure to Google Cloud Platform

Desktop Support Student Assistant   December 2019 – May 2020

Georgia Tech Office of Information Technology

- Reduced storage usage by creating scripts in Python to find old/inactive files utilizing RegEx

Research Intern   January 2019 – August 2019

Birla Carbon

- Researched the effect of types of carbon black on synthetic rubber's properties
- Measured the precision and repeatability of 6 instruments using statistics (confidence/tolerance)
- Wrote reports comparing historical quality assurance data to the measured precision and repeatability

PROJECTS

Android Team Awareness Kit (ATAK) Timer Plugin

- Created a plugin to allow the 75th Ranger Regiment to manage multiple concurrent timelines
- Utilized the ATAK framework in Android to create a plugin using Java consistent with the ATAK app while maintaining performance and developing features based on user research

SplitWay – VandyHack Hackathon Project

- FLASK web app that allows college students to easily find people to carpool with to local events
- Leveraged Python with Google maps API and SQLAlchemy to query and store information

TECHNICAL SKILLS AND COURSEWORK

Technical Skills

- Languages: Java, Python, HTML, CSS, JavaScript, TypeScript, Kotlin, SQL, C
- Frameworks: Spring Boot, Angular, Flask, JPA, JDBC, React, Agile, Scrum
- Tools: Git, Postman, IntelliJ, AWS CDK, AWS SDK, Kubernetes, Docker, Jira, vim, VS Code

Selected Coursework

Object Oriented Programming (Java), Data Structures and Algorithms (Java), Computer Organization and Programming (C, LC3 assembly), Database Systems (mySQL), Systems and Networks (C), Objects and Design (Java), Machine Learning (Python), Design and Analysis of Algorithms