

Peyton Howell

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EDUCATION

Georgia Institute of Technology

August 2019 – December 2021

4.0 GPA, Faculty Honors

- Bachelor of Science in Computer Science
- Concentration in Information Internetworks and Modelling and Simulation

EXPERIENCE

Software Development Engineering Intern

May 2021 – August 2021

Amazon

Software Engineering Intern

June 2020 – May 2021

J.B. Hunt Transportation Services

- Improved stability of an essential Java Springboot webservice by refactoring contracted parts of the webservice, and wrote unit and integration tests using Junit and Mockito
- Created a dynamic msSQL 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 logging/auditing feature for interview management tool in a SpringBoot webservice
- Debugged problems in Kubernetes environment using KubeCtl

Desktop Support Student Assistant

December 2019 – May 2020

Georgia Tech Office of Information Technology

- Assist GT staff over phone and in case management software (ServiceNow) using Bomgar and Putty
- Reduced shared storage usage by creating scripts in Python to find inactive files, using RegEx

Research Intern – Materials Engineering

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

SplitWay – VandyHack Hackathon Project

- FLASK web app that allows college students to easily find people to carpool with to local events
- Focused on back-end using Python with Google maps API and SQLAlchemy to search and store information

Georgia Tech Schedule Optimizer

- Created a Python application that scrapes average GPA information from critique.gatech.edu using BeautifulSoup
- Established basic functions to group courses such that the average GPA, and therefore difficulty, of each semester is constant from semester to semester

TECHNICAL SKILLS AND EXTRA-CURRICULARS

Technical Skills

- Languages: Java, Python, Git, HTML, CSS, JavaScript, TypeScript, SQL, C
- Frameworks: SpringBoot, Angular, Flask, JPA, JDBC, Derby, Agile, Scrum
- Tools: Postman, IntelliJ, VSCode, MS SQL Server Management, Azure DevOps, Kubernetes, Docker

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 (Spring 21), Design and Analysis of Algorithms (Spring 21)