

# Peyton Howell

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## EDUCATION

### Georgia Institute of Technology

August 2019 - May 2022

4.0 GPA, Faculty Honors

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

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## EXPERIENCE

### Software Engineering Intern

June 2020 – Present

*J.B. Hunt Transportation Services*

- Improved stability of routing guide application in Java SpringBoot by writing unit and integration tests using Junits and Mockito increasing code coverage to over 80%
- Created a dynamic MySQL query creator in Java to allow more complex searching with JDBC
- Developed internal interview management tool with Angular (JavaScript, TypeScript, HTML, SCSS) following UI mocks using PrimeNG, and interfacing with services using RxJS
- Developed logging feature for interview management tool in a Spring webservice using JPA
- Debugged problems in Kubernetes dev environment using KubeCtl
- Followed Agile/Scrum framework on team using CI/CD with Azure DevOps

### 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 old/inactive files using 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

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## 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

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## 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

### 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), Statistics, Combinatorics, Discrete Math, Linear Algebra

### Extra-Curriculars

- Big Data, Big Impact Club
- Eagle Scout Award