

# JAMES GASEK

Hudson, Massachusetts

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## Education

### Lehigh University 3.7

Aug. 2020 – Dec 2023

*Bachelor of Science in Computer Science and Business, Data Science*

*Bethlehem, PA*

## Relevant Coursework

- |                         |                          |                         |                           |
|-------------------------|--------------------------|-------------------------|---------------------------|
| • Blockchain Algorithms | • Computer Architectures | • Database Systems      | • Financial Accounting    |
| • Systems Software      | • Structures Algorithms  | • Finance               | • Economics               |
| • Software Engineering  | • Web Systems            | • Managerial Accounting | • Organizational Behavior |

## Experience

### Amazon Robotics

Jun 2023 – Aug 2023

*Software Engineer Intern*

*North Reading, MA*

- Developed serverless dashboard for viewing results of systems testing as part of the QA Automation team.
- Frontend application written in TypeScript as React single page application hosted from an S3 bucket.
- Backend infrastructure and CI/CD modeled using using AWS Cloud Development Kit with TypeScript to allow version-controlled infrastructure and rapid deployment and iteration.
- Developed proficiency in AWS, using API Gateway to route Sigv4 signed requests, Python Lambdas to access test logs, S3 to store and organize test logs, Route53 for DNS configuration, and IAM to restrict access to Quality Assurance Engineers and allow cross-account resource access.
- Completed project weeks ahead of schedule and was able to iterate on design and tailor product to end users.

### Structural Services

Dec 2021 – May 2023

*Software Engineer*

*Bethlehem, PA*

- Lead developer of device interaction software for an AI-powered assistive system for the construction industry.
- Created multithreaded C++ programs to read, encode, process, and display camera and other sensor data wirelessly.
- Integrated 3rd party device interaction libraries for Basler and JAI Gig-E computer vision cameras, an SBG Systems Inertial Measurement Unit and GPS, and Micro-Epsilon Lidar systems, among other devices.
- Researched GPS technology and wrote software enabling centimeter accurate GPS tracking using real-time kinematic positioning (RTK) and a cellular connection to receive atmospheric corrections.
- Working in a fast-paced, highly-motivated startup environment, in constant communication with other team members. Adapting to constantly evolving designs, unexpected obstacles, and ambitious timelines.
- Used CMake to optimize building process and manage C/C++ libraries.

### Streamlined Tech

Jun 2021 – Jan 2022

*Frontend Engineer & UI/UX Intern*

*Remote*

- Assisted in development of React full-stack, single-page HR management web app with other Lehigh students, actively used by dozens of clients and thousands of employees.
- Implemented password encryption logic, registration logic, and other interactions with PostgreSQL database.

## Projects

### Loupt | *React, AWS, MongoDB, Node.js*

July 2023

- Lead developer of a Crowdfunding social media platform looking to disrupt the securities-based crowdfunding space.

### Lehigh Course Management Board | *TypeScript, Vue.js, Firebase, Google Cloud Console*

January 2021

- Assisted creation of a Kanban-inspired drag and drop schedule planner for fellow CSB students at Lehigh.
- Complete google OAuth with firebase integration to keep track of user's course plans.

### Eagle Scout | *Community Service*

September 2019

- Led and coordinated volunteers to build community-funded sitting benches outside of the local Hudson Food Pantry.

## Technical Skills

**Languages (Most experience first):** C++, C, TypeScript, JavaScript, Python, Java, HTML/CSS, Swift/UIKit, Rust

**Developer Tools:** AWS, Firebase, MongoDB Atlas, XCode, Docker, Maven, Oracle SQL Developer

**Technologies/Frameworks:** Linux, Git, React, Node.js, AWS CDK, Oracle MySQL, CMake, Boost, DNS