

JAMES GASEK

Boston, MA

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Education

Lehigh University

Bachelor of Science in Computer Science and Business, Data Science (Completed Early)

Aug. 2020 – Dec. 2023

Bethlehem, PA

Advanced Math and Science Academy Charter School

High School

Aug. 2016 – May 2020

Marlborough, MA

Experience

Amazon Robotics

Software Engineer, Robotic Sortation Technology

Dec. 2024 – Present

North Reading, MA

- Developing next-generation robotic sortation systems for Amazon's worldwide fulfillment center network
- Building robust microservices using Java, Kotlin, and Scala on AWS CDK infrastructure
- Implementing React dashboards for Outbound Dock Automation project, scheduled for Q2 2025 deployment
- Maintaining and migrating existing services for sortation systems processing and tracking millions of packages daily

Amazon Robotics

Software Engineer Intern, QA Automation

Summer 2023

North Reading, MA

- Developed serverless React application for viewing results of systems testing as part of the QA Automation team
- Modeled infrastructure and CI/CD using AWS Cloud Development Kit (CDK) in TypeScript to allow version-controlled infrastructure and rapid deployment
- Implemented several AWS services, including API Gateway to route SigV4 signed requests, Python Lambdas to access test logs, S3 to store and organize test logs
- Completed project two weeks ahead of schedule and tailored the product more closely to end-user needs

Structural Services

Software Engineer

Dec. 2021 – May 2023

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
- Developed driver libraries for devices such as CV cameras, an SBG Systems IMU/GPS, and Micro-Epsilon LiDAR
- Researched GPS technology and wrote software enabling centimeter-accurate GPS tracking using RTK positioning

Projects

Loupt | *Next.js, TypeScript, PostgreSQL* | loupt.co

2023 – Present

- Technical Co-Founder of a Regulation Crowdfunding platform aimed to democratize access to investment opportunities
- Designed and deployed Node.js services and Next.js web application with PostgreSQL on ECS with AWS services
- Integrated third-party APIs for investor KYC/AML, payment processing, and marketing automation
- Led development team and worked closely with institutional investors and stakeholders

Newton Notes | *SwiftUI* | gasek.net/newtonnotes

2024 – Present

- Developed a minimalist, privacy-focused gym workout tracking application using pure SwiftUI
- Implemented a clean, intuitive interface prioritizing simplicity and user privacy
- Created as a free, open-source alternative to complex fitness tracking applications

CV Hazard Detection Model | *Python, OpenCV, Keras, AWS SageMaker* | Lehigh Capstone - Fall 2023

2023

- Fine-tuned object detection model to dramatically increase performance of off-the-shelf models for autonomous cyclist assistance device with Bethlehem-based startup, Skillion
- Used publicly available datasets including KITTI, Norwegian University of Science and Technology, and manually collected data labeled with in-house Python labeling program from Tesla Model S onboard camera
- Achieved over 200x improvement in performance on nighttime headlight-facing captures

Technical Skills - Most Experience First

Languages: C++, TypeScript/JavaScript, C, Java, Python, Go, HTML/CSS, Shell, Swift/SwiftUI, Rust, Kotlin, Scala
Frameworks/Technologies: Next.js, React/React Native, PostgreSQL, MongoDB, Flutter, Node.js, AWS CDK, Docker
Developer Tools: pgAdmin, Railway, AWS, Figma, Linux, CMake, Firebase, Xcode, Github Actions