

# Rohit Valiveti

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## EDUCATION

**Cornell University | GPA: 3.86/4.0**

*Master of Engineering in Computer Science, B.S. in Computer Science*

Ithaca, NY.

Expected May 2025

- **Courses:** Analysis of Algorithms, Data Structures, Functional Programming, Machine Learning, Computer Vision, Artificial Intelligence, Robot Learning, Operating Systems, Systems Programming, Networks, Game Architecture, Databases, Discrete Math,
- **Teaching:** Teaching Assistant for CS 3110 - Functional Programming & Data Structures (August 2022 - Pres.)

## EXPERIENCE

**Notion**

May 2024 - Aug 2024

*Software Engineering Intern*

New York, NY.

- Reduced failure rate of enterprise feature w/ **~\$83M ARR** that exports **workspace analytics** to CSV from **70% to 0%**, allowing scalability
- Architected checkpointing infrastructure w/ **S3, Redis, & Typescript**, making **50+ daily** exports resilient to larger loads & daily deploys
- Produced **Datadog Dashboards**, set **SLAs**, & increased **Splunk** logs to enhance feature monitoring & alerting, reducing MTTA to **< 1 min**
- Discovered & fixed longstanding **Elasticsearch** issue from a sister team that produced **300+** erroneous CSV files & **20+** oncall incidents
- Enabled enterprise users to be HIPAA compliant in-app & re-routed AI traffic to zero data retention endpoints; increased ARR **~\$1.5M**

**Geico**

June 2023 - Aug 2023

*Software Engineering Intern*

Chevy Chase, MD.

- Architected software patching end-to-end with **CI/CD** pipeline on **Azure DevOps**; decreased patch time **80%**; reduced monitor cost **60%**
- Collaborated with management to migrate **Azure tasks** to **YAML** format, allowing for concurrent pipeline runs & **40%** runtime reduction
- Leveraged **PowerShell & Graph API** to query VM status, disable VMs from continuing jobs, & trigger patch upon detecting idle VM
- Automated data extraction from GEICO cloud using **Python, Azure Functions, Databricks & Lake Storage**, reducing data handling **45%**

**Riverside Research**

June 2022 - Aug 2022

*Software Engineering Intern*

Lexington, MA.

- Migrated **OTB** (analytics tool suite for system lifecycle monitoring) to **NodeJS/AngularJS** app & presented costs/benefits to stakeholders
- Integrated **S3** for file storage & **Mongodb** for structured stores while converting API from **Spring** to **Express**; reduced response time **40%**
- Architected interfaces & endpoints for 20 new radar models using **Javascript** & generated thorough test reports with **Mocha, Chai, & Jest**
- Automated system documentation analysis using **natural language processing, Java, & lambda** to extract recurring & specified key terms

**Cornell Design & Tech Initiative**

Feb 2022 - Jan 2024

*Technical Product Manager*

Ithaca, NY.

- Leading 7 other developers in creation of **Carriage** (ride-share app for 2000+ disabled Cornell students) through **Agile** methodologies
- Architected ride-matching algorithm in **Typescript** using **Gale-Shapley** to pair rides & drivers based on rider needs (**S3, DynamoDB**)
- Introduced a backend testing infrastructure using **Mocha, Chai, & Supertest**; resulted in **95%** test coverage increase throughout backend
- Implemented text message alerts using **Google Cloud Functions** to notify over **50** registered drivers when a ride is requested or canceled

## PROJECTS

**GeAIco** ([GitHub](#) + [Video](#)) | Azure OpenAI, Azure Cognitive Search, Azure DevOps, Python, Flask, Microsoft API

June 2023 - July 2023

- AI assistant awarded **1st** place among **400+** engineers at Geico's OpenAI Hackathon for best utility in potential enterprise use by CTO
- Utilized **Azure OpenAI & Cognitive Search** to implement chat-bot, email assistance, & chat summarizer features in **Flask** backend
- Leveraged **prompt engineering** to contextualize responses as a Geico insurance agent & **Microsoft Graph API** to integrate with Outlook

**Spotify Music Recommender** ([GitHub](#) + [Video](#)) | Spotify API, Spotify, Scikit-learn, Pandas, Python, Flask, React.ts

Mar 2023 - July 2023

- Content-based machine learning recommendation algorithm that uses **Spotify API & cosine similarity** to suggest songs based on playlists
- Preprocessed dataset of over **230k** songs using **Pandas**, identifying key audio features & vectorizing tracks to improve algorithm results
- Tuned & optimized model such that **~80%** of recommendations are those also suggested by Spotify; Integrated into **React + Flask** app

**HeartBeat** ([Game](#)) | Java, libGDX, Tiled, Figma, Unity, box2d

Jan 2024 - May 2024

- Led a group of 5 programmers & 3 designers as the technical product manager of desktop-based platformer & rhythm game, HeartBeat
- Laid out the software architecture following a **Model-View-Controller** pattern, **libGDX** engine, & **Java**; produced over **50k** lines of code
- Implemented level editor, AI-powered enemies, rhythm engine, physics model, obstacles, & input + movement controller, among others

## SKILLS

- **Language:** Java, Python, Javascript, Typescript, C++, Objective-C, OCaml, C, R, Powershell, SQL, C#, Swift, Matlab, CSS, HTML
- **Tools:** Datadog, Splunk, Ephemeral Redis, MongoDB, AWS S3, Azure, Firestore, Firebase, Docker, OpenAI, CI/CD, Agile
- **Frameworks:** Node.js, React, Angular, Pandas, Numpy, Git, MySQL, Postgres, Flask, Django, Spring, Jest, Mocha, Integration testing