Rishab Paruchuri

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EDUCATION

Georgia Institute of Technology — Expected Graduation - May 2026
Bachelor of Science in Computer Science | GPA: 4.0/4.0 — *Atlanta, GA*
Concentrations: Systems & Architecture and Information Internetworks

EXPERIENCE

Software Engineering Intern - Capital One — June 2025 – Present
Technology Internship Program — *McLean, VA*

Software Developer - Bits of Good | Georgia Tech — Dec 2024 – Present
Hope For Haiti — *Atlanta, GA*
- Engineered a high-volume backend CSV/XLSX ingestion system with live previews and error feedback, enabling upload of 5,000+ records in Next.js/PostgreSQL
- Streamlined workflows by building donor and registration portals in React/Tailwind, reducing admin time by 50%
- Built scalable REST API with Prisma ORM enabling search/filtering for 100,000+ items and $30M+ inventory

Founder & Software Engineer - Campus Crate — Nov 2024 – Present
- Launched student storage marketplace using Next.js, Supabase, PostgreSQL, Stripe; used by 40+ students
- Developed secure REST endpoints with address protection and user authentication using Supabase Auth
- Designed relational SQL schema with geospatial indexing (PostGIS) and integrated Google Maps API for location-based listing search

Data Science and Analytics Intern - John Deere — May 2024 – Aug 2024
Intelligent Solutions Group — *Urbandale, IA*
- Developed patented machine learning algorithms in Python/PySpark using clustering and image segmentation to generate guidance zones from historical machine path data for AutoPath/AutoTrac autonomous guidance tools
- Spearheaded delivery of validation sets to multiple agricultural organizations (100,000+ acres), earning deployment approval in John Deere Operations Center with support for 650,000+ machines
- Built CNN architecture using satellite imagery and digital elevation model rasters to detect agricultural terraces

Full-Stack Software Engineering Intern - Women Entrepreneurship Hub — Jun 2022 – Jul 2022
- Crafted responsive web pages with JavaScript, HTML, CSS (Bootstrap) and integrated them with a Node.js/Express backend, enabling access to incubator resources for 5,000+ women entrepreneurs
- Designed intuitive UIs for the Udyamika Platform, improving engagement and rural accessibility

PROJECTS (SEE GITHUB/LINKEDIN)

MiniRedis | *C/C++, Docker*
- Engineered a high-performance, Redis-inspired in-memory key-value store in C++, containerized with Docker
- Implemented custom event loop using `poll()`, non-blocking I/O, and binary-safe protocol parsing
- Supported Redis-style pipelining and REPL interface, with efficient in-memory data structures (hash maps & lists)

Spotify Wrapped Social App | *Java, Firebase, Spotify Web API*
- Built a social Android app for sharing and comparing Spotify Wrapped stats with friends via a dynamic feed
- Integrated Spotify Web API, Firebase Auth, and NoSQL Firestore to enable real-time user experiences
- Led team of 5 in Agile (Scrum) sprints; implemented CI/CD with GitHub Actions for testing and deployment

Computer Vision Geolocalization - Advisor: Prof. Susan Fox, Macalester | *Python, TensorFlow, OpenCV*
- Architected a convolutional neural network using VGG16 and transfer learning to predict city location from images
- Enhanced prediction accuracy by optimizing image preprocessing and fine-tuning deep learning model architecture

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, TypeScript, SQL (PostgreSQL), MATLAB, HTML/CSS, Bash, Go
Frameworks/Libraries: React, Next.js, Node.js, Flask, Spring Boot, Prisma, Tailwind, NumPy, Pandas, MongoDB
Developer Tools: Git, Docker, GitHub Actions, Supabase, Stripe, AWS, Azure, Google Cloud Platform, Postman
Coursework: Data Structures, Algorithms, Operating Systems, Computer Systems & Networks, Databases, Object-Oriented Programming, Discrete Math, Artificial Intelligence, Probability & Statistics, Applied Combinatorics

AWARDS/HONORS

Georgia Tech Faculty Honors: Fall 2023, Spring 2024, Fall 2024, Spring 2025
Top 1% – 2025 IMC Prosperity Trading Competition: Ranked in top 1% out of 12,500+ global teams