

YATHARTH BHARGAVA

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EDUCATION

Georgia Institute Of Technology

August 2021 – May 2025

Bachelor of Science in Computer Science, GPA: 3.92

Atlanta, GA

- **Relevant Coursework:** Advanced Operating Systems, Intro to Information Security, Design of Algorithms, Systems and Networks, Machine Learning, Artificial Intelligence, Data Structures and Algorithms, Discrete Math
- **Awards:** Neo Scholar Finalist, Faculty Honors

EXPERIENCE

Software Engineer Intern

June 2024 – August 2024

Optiver

Chicago, IL

- Designed metrics collection infrastructure for a critical CI pipeline used by 100+ engineers at Optiver.
- Used Elasticsearch indices to parallelize queries, allowing the system to handle a 5x increase in load.
- Developed a Grafana dashboard, providing real-time insights and reducing issue resolution time by 80%.
- Optimized pipeline runtimes by 20% through more efficient load distribution among workers (Jenkins, Python).

Software Engineer Intern

May 2023 – August 2023

NCR Corporation

Atlanta, GA

- Built a service to persist Kubernetes deployments after E2E test execution to increase the debugging velocity of 80+ engineers (Kubernetes, Helm, Github Actions, Node JS, Next JS, Python, Docker, Redis, Bash, Google Cloud).
- Enabled attachment of debuggers to remote Kubernetes deployments saving 2 days of engineering time on average.
- Developed authorization system for securely providing engineers access to Kubernetes cluster.

Software Engineer Intern

May 2022 – August 2022

NCR Corporation

Atlanta, GA

- Implemented a new feature on Self-Checkout deployable in 1 million stores, enabling donations to charities.
- Developed a full-stack web app (Typescript, React, NestJS) utilizing Google Cloud services (Apigee, Firestore) to support NCR employees and store owners in efficiently managing the new feature.
- Added the new feature's state to Self-Checkout's custom C++ state machine and a new screen to the .NET UI.

LEADERSHIP

Teaching Assistant - Intro to Artificial Intelligence

January 2024 – Present

College of Computing, Georgia Institute of Technology

Atlanta, GA

- Helped 600+ students understand Artificial Intelligence concepts including MDPs, Neural Nets, and Decision Trees.
- Curated exam questions, helped students implement AI algorithms in Python, and improved coding assignments.

Engineering Manager

August 2022 – May 2024

Hack4Impact - Georgia Tech Bits of Good

Atlanta, GA

- Remodeled gt-scheduler.org, an open-source course scheduling tool with 24,000+ monthly users at Georgia Tech.
- Optimized the course crawler (Node.js, Typescript) to leverage multithreading to reduce runtime by 90% and migrated to a new version of the registration provider to save the website from a breaking change in versions.
- Deployed a new feature for sharing schedules with friends and raised \$500 in donations for longevity of the tool.

Director of Technology and Design

April 2022 – May 2024

Georgia Tech Startup Exchange

Atlanta, GA

- Founded ImmerseGT (immersegt.io), the first Mixed Reality hackathon in the South. Built a website (React, Javascript) with 10,000+ monthly visitors and attracted 2,500+ registrants from 50+ universities and 9 countries.
- Led a team of 5 creatives to produce multimedia marketing content attracting 400+ regular event attendees.

PROJECTS

Halocrypt (halocrypt.com) | Python, Vercel

May 2020 – May 2021

- Established India's largest capture-the-flag event with 5000+ participants and secured \$2000 in funding.
- Scaled the website backend (Flask, Python) to handle 6 million requests over the course of the event, developed a discord bot (Python) to administer 2000 users, and produced a promotional trailer with 4,000+ views on Youtube.

TECHNICAL SKILLS

Languages and Frameworks: Python, Javascript, Docker, Kubernetes, Helm, Java, Typescript, C, C++, C#, Express, React, React Native, NestJS, NextJS, Flask, .NET, TensorFlow, PyTorch, Numpy, MySQL, Postgres, Linux, Bash, Firebase