Yatharth Bhargava

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Education

Georgia Institute of Technology   *Atlanta, GA*
Bachelor of Science in Computer Science | GPA: 3.95/4.0   *August 2021 - May 2025*
Awards: Neo Scholar Finalist, Faculty Honors
Relevant coursework: Design of Operating Systems, Intro to Artificial Intelligence, Design and Analysis of Algorithms, Machine Learning, Computer Organization and Programming, Systems and Networks, Software Engineering Design

Work Experience

NCR Corporation   *Atlanta, GA*
Software Engineering Intern   *May 2023 - August 2023*
- Engineered tooling and infrastructure saving 2 days of debugging time on average for Self-Checkout microservices.
- Built a service to persist Kubernetes deployments after running E2E tests to increase debugging velocity of 80+ engineers (Kubernetes, Helm, Github Actions, Node JS, Next JS, Python, Docker, Redis, Bash, Google Cloud Platform).
- Enabled replication of test environments locally and attachment of debuggers to remote Kubernetes deployments.
- Developed authorization system for securely providing engineers access to Kubernetes cluster.

Software Engineering Intern   *May 2022 - August 2022*
- Implemented a new feature on Self-Checkout deployable in 1 million stores, enabling seamless 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.
- Achieved a top 25 finish among 2000+ teams in NCR's annual hackathon by building a Machine Learning-powered Self-Checkout feature that reminds shoppers of potentially forgotten items based on transaction history.

ClearTrail Technologies   *Indore, India*
Software Engineering Intern   *August 2020 - September 2020*
- Researched the effectiveness of pose estimation in sentiment analysis for crime detection in videos.
- Utilized OpenPose to perform pose estimation and integrated with a sentiment analysis system. (Tensorflow, Python).

Leadership Experience

Hack4Impact - Georgia Tech Bits of Good   *Atlanta, GA*
Engineering Manager   *August 2022 - Present*
- Remodeled GT Scheduler, an open-source course scheduling tool with 24,000+ active monthly users at Georgia Tech.
- Spearheaded the migration of the course crawler (Typescript, Node JS) to a new version of Banner, a registration provider for universities, saving the website from a breaking change in versions.
- Followed agile development, reviewed code, and implemented complex data loading and UI components in React.

Georgia Tech Startup Exchange   *Atlanta, GA*
Director of Marketing and Design   *April 2022 - Present*
- Led a team of 5 creatives to produce weekly multimedia marketing content attracting 400+ regular event attendees.
- Founded ImmerseGT, the world's largest Mixed Reality hackathon. Attracted 2,500+ global registrants from 50+ universities and 9 countries with widespread social media outreach and a website (immersegt.io/).

College of Computing, Georgia Institute of Technology   *Atlanta, GA*
Teaching Assistant - Systems and Networks (CS 2200)   *January 2023 - May 2023*
- Instructed 50-student section on virtual memory, processor architecture, multithreading, caching, C, and networking.
- Developed C-based auto-grading tools and comprehensive unit tests, saving hours of manual grading time.

Project Experience

Halocrypt
Python, Typescript, discord.py, Vercel, Flask | halocrypt.com   *May 2020 - May 2021*
- Established India's largest capture-the-flag event and secured sponsorship from Vercel, Replit, and NordVPN.
- Attracted 5000+ participants from more than 80 countries by email and social media outreach strategies.
- Scaled the website backend (Flask) to handle 6 million requests over the course of the event, developed a discord bot to administer 2000 users, and produced a promotional trailer with 4,000+ views on Youtube.

Skills

Languages, Frameworks, and Tools: 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