

# Rian Rahman

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## EDUCATION

### Georgia Institute of Technology

Bachelor of Science Degree in Computer Science, GPA: 3.88

Atlanta, Georgia

Expected Graduation: May 2025

## EXPERIENCE

### HP Inc.

Software Engineer Intern

Fort Collins, CO

May 2023 – Present

- Developing a UI in React to chart and visualize data stored in hp.dev global catalog, providing users with data insights into various aspects of the catalog

### Georgia Tech's Vertically Integrated Project Program

Research Assistant

Atlanta, GA

January 2022 – December 2022

- Implemented an advanced AI-based face recognition algorithm for miniature robotic blimps and autonomous underwater vehicles using TensorFlow, NumPy, and OpenCV
- Integrated a Raspberry Pi into the blimp, enabling data parsing from the face recognition algorithm and secure data upload onto an SSH server
- Created a Python to MATLAB GUI that improved blimp pathfinding by 30% in terms of image quality and accuracy detection through deep learning techniques
- Collaborated within a team of eight to design and deploy a blimp that successfully broadcasted a Georgia Tech basketball game to over 1,000 people

### NCR Corporation

Software Engineer Intern

Atlanta, GA

May 2022 – August 2022

- Developed robust RESTful APIs in Go and Spring Boot, streamlining the request/response format for NCR consumer data
- Created an intuitive RBAC configuration dashboard for NCR's Business Platform to display and manage GraphQL API data from over 60 million calls made by 100+ partner organizations
- Employed Chart.js to extract and visualize essential data for top 10 organizations, enterprise units, and endpoints, enabling effective monitoring and performance assessment
- Integrated an HTML viewer into the dashboard, enabling editing of 50+ templates from NCR's Digital Receipt services
- Assisted in the deployment of the dashboard onto Google Cloud Platform using GitOps, ensuring seamless integration

### UGA's Computer Science Department

Teaching Assistant

Athens, GA

June 2021 – December 2021

- Provided comprehensive feedback on weekly Java labs, guiding ~ 120 students in mastering fundamental programming techniques over two semester
- Contributed to the creation of 12 Java assignment evaluation tools, significantly reducing grading time to under 5 seconds

## PROJECTS

### EatCode | React, MongoDB, Express.js, TypeScript, JavaScript, Java, Python, Docker

[github.com/RiRah123/EatCode](https://github.com/RiRah123/EatCode)

- Engaged with seven teammates to develop a software engineering technical interview training website in React that provides 100+ algorithmic and data structures-styled questions in 5 languages
- Configured a MongoDB and Express.js backend system to track users' progress on problem-solving over the last 365+ days using their Google account ID

### NCR Go | React Native, MongoDB, Python, Microsoft Azure

[github.com/RiRah123/NCR-Go](https://github.com/RiRah123/NCR-Go)

- Built a React Native application with six teammates to provide an efficient shopping solution for customers, where a product's availability and in-store location are detected using computer vision technology
- Connected the front end of the application with a conventional neural network that classifies images of in-store products with 94% accuracy and stores relevant inventory data into a MongoDB cluster
- Recognized as a top 10 project out of 401 teams (4,800+ participants) and had the opportunity to present to NCR's Executive Leadership Team

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, JavaScript, TypeScript, HTML/CSS, SQL

**Frameworks/Libraries:** React, Material UI, Next.js, React Native, D3.js, Spring Boot, NumPy, Pandas, PyTorch, Matplotlib

**Developer Tools:** Jira, Azure, Docker, AWS, Postman, Figma, Terminal, Git, GitHub, Docker, JUnit, Git, GitHub

**Concepts:** Agile Development Process, Data Structures & Algorithms, RESTful APIs, Human-Computer Interaction, UI Design, Data Visualization, Software Development, Object-oriented Programming, Systems Programming, Objects & Design