

# 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*

- Constructed RESTful APIs with Go and Java Spring Boot, ensuring standardized request/response formats for consumer data
- Developed RBAC configuration dashboard for NCR's Business Services Platform using Next.js and Material UI, displaying GraphQL API data for over 60 million calls from 100+ partner organizations
- Utilized Chart.js to extract and visualize API data, providing insightful representations of top 10 organizations, enterprise units, and endpoints by total calls
- Enhanced dashboard functionality by embedding an HTML viewer, enabling the rendering of 30+ templates from NCR's Digital Receipt services
- Regularly met with internal managers over four sprints to demo dashboard and assess needs under the Scrum Methodology
- Assisted in the deployment of the dashboard onto Google Cloud Platform using Helm, Kubernetes, and GitOps

### 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 development of 12 Java assignment evaluation tools, resulting in automated grading of student submissions in 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 website to a MongoDB and Express.js back-end system that tracks user progress on problems over the last 365 days using their Google account ID

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

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

- Collaborated with three teammates to establish an Imgur clone under 36 hours that generates a secure and anonymous shareable link for a user-uploaded audio file using the TinyURL API
- Leveraged Flask as the back-end, resulting in 100+ audio files to be stored on an Amazon EC2 instance with a unique 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

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**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