Rian Rahman

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EDUCATION

Georgia Institute of Technology   Atlanta, Georgia
Bachelor of Science Degree in Computer Science, GPA: 3.88   *Expected Graduation: May 2025*

EXPERIENCE

HP Inc.   Fort Collins, CO
Software Engineer Intern   *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   Atlanta, GA
Research Assistant   *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 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   Atlanta, GA
Software Engineer Intern   *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   Athens, GA
Teaching Assistant   *June 2021 – December 2021*
- Provided comprehensive feedback on weekly Java labs, guiding $\sim$ 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
- 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
- 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
- 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