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 by leveraging TensorFlow, NumPy, and OpenCV
- Incorporated a Raspberry Pi in the blimp, enabling data parsing from the facial recognition and secure uploading onto an SSH server
- Created a Python to MATLAB GUI that applied deep learning to improve a blimp pathfinding by 30% in terms of image quality and accuracy detection
- Facilitated with eight teammates to design and deploy a blimp that successfully broadcasted a Georgia Tech basketball game to 1,000+ people

NCR Corporation — Atlanta, GA
Software Engineer Intern — *May 2022 – August 2022*
- Constructed robust RESTful APIs using Go and Spring Boot, streamlining the request/response format for NCR consumer data
- Developed an intuitive RBAC configuration dashboard for NCR's Business Platform in Next.js to display and manage GraphQL API data from over 60 million calls made by 100+ partner organizations
- Integrated an HTML viewer in the dashboard, empowering users to edit and render 30+ templates from NCR's Digital Receipt services
- Employed Chart.js to extract and visualize essential data for top 10 organizations, enterprise units, and endpoints, enabling effective monitoring and performance assessment
- Assisted in deploying the dashboard on Google Cloud Platform using GitOps, ensuring seamless integration and optimal performance

UGA's Computer Science Department — Athens, GA
Teaching Assistant — *June 2021 – December 2021*
- Delivered in-depth feedback on weekly Java labs, guiding ~110 students in mastering core programming concepts over two semester
- Contributed to 12 Java assignment evaluation tools, significantly reducing grading time of student submissions to under 5 seconds

PROJECTS

EatCode | *React, MongoDB, Express.js, TypeScript, Java, Python, Docker* — github.com/RiRah123/EatCode
- Engaged with seven teammates to build a software engineering technical interview training website in React, providing users with 200+ algorithmic and data structures-styled questions in five programming languages to enhance their learning experience
- 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
- 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 top 10 among 401 teams (4,800+ participants) and secured a patent by presenting 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, Kubernetes, Helm
Concepts: Agile Development Process, Data Structures & Algorithms, RESTful APIs, Human-Computer Interaction, UI Design, Data Visualization, Software Development, Object-oriented Programming,