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
- Integrated a Raspberry Pi into 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 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 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 within 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 of the dashboard onto Google Cloud Platform using GitOp, ensuring seamless integration and operation

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,