Rian Rahman

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EDUCATION

Georgia Institute of Technology — Atlanta, GA
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*
- Implementing a browsable graph visualization, enabling users to seamlessly comprehend the intricate connections among 20,000+ HP-related API entities spanning across 15 distinct types
- Deploying the graph to the global hp.dev catalog site, delivering significant time savings for ∼7,000 employees by eliminating the need for manual searches of entity relations across multiple catalogs
- Utilizing React, Typescript, and Highcharts for the dynamic UI and employing GraphQL to query data from HP's API catalog backend
- Leading demos of the visualization to managers during sprints, using Scrum to assess their needs and achieving stakeholder satisfaction

Georgia Tech's Vertically Integrated Project Program — Atlanta, GA
Research Assistant — *January 2022 – December 2022*
- Applied TensorFlow, NumPy, and OpenCV to develop an AI-powered facial recognition algorithm for miniature robotic blimps and autonomous underwater vehicles, enhancing their maneuver capabilities significantly
- Incorporated a Raspberry Pi in the blimp, providing data parsing from the facial recognition and secure uploading onto an SSH server
- Designed a Python to MATLAB GUI interface that effectively employed complex deep learning techniques, improving the blimp pathfinding by 30% in terms of image quality and accuracy detection
- Facilitated with eight teammates to deploy a blimp that successfully broadcasted a Georgia Tech basketball game to an ∼1,000 people

NCR Corporation — Atlanta, GA
Software Engineer Intern — *May 2022 – August 2022*
- Revamped NCR's consumer data with streamlined response/request formats by building robust RESTful APIs in Go and Spring Boot
- Developed an intuitive RBAC configuration dashboard in Next.js for NCR's Business Platform, offering internal management for 60+ million GraphQL APIs utilized by 100+ partner organizations
- Empowered users to edit 50+ templates from NCR's Digital Receipt services by integrating an HTML viewer onto the dashboard
- Transformed complex API data into actionable insights with 16 Chart.js visualizations, allowing performance assessment of top 10 organizations, enterprise units, and endpoints
- Ensured seamless integration and optimal dashboard performance by assisting its deployment on the Google Cloud Platform with GitOps

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 three seconds

PROJECTS

NCR Go | *React Native, MongoDB, Python, Microsoft Azure, OpenCV* — github.com/RiRah123/NCR-Go
- Spearheaded the development of a React Native application with six teammates that leverages computer vision technology to revolutionize the shopping experience by accurately detecting product availability and providing in-store location information
- Connected a neural network into the front end of the application, optimizing classification of in-store product images to ∼94% accuracy and organizing inventory data in a MongoDB cluster
- Recognized as top 10 of 401 teams for NCR's Global Hackathon and secured a patent by presenting to the Executive Leadership Team

mfChess | *React, TypeScript, MongoDB, Google Authenticator, WebSocket* — github.com/mfChess
- Collaborated with four teammates to devise mfChess, a deployed React application that improves the user experience in online chess by implementing faster matchmaking, real-time, in-depth Stockfish-powered analysis, and game-hosting capabilities for 10+ players
- Integrated site with the WebSocket protocol to efficiently preserve user states and game statistics across 25+ sessions, leading to heightened user collaboration and engagement

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, enabling users to enhance their data structures and algorithms learning experience with 100+ questions in five supported programming languages
- Configured a MongoDB and Express.js backend system, tracking users' progress on problem-solving over the last 365+ days using their Google account ID

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, TypeScript, HTML/CSS, SQL, GraphQL
Frameworks/Libraries: React, Material UI, Next.js, React Native, D3.js, Spring Boot, NumPy, Pandas, Matplotlib, Beautiful Soup, JSON
Developer Tools: Jira, Azure, AWS, Postman, Figma, Linux/Unix, Git, GitHub, Docker, JUnit, Kubernetes, MongoDB, Notion
Concepts: Agile Development Process, Data Structures & Algorithms, RESTful APIs, Human-Computer Interaction, UI Design, Data Visualization, Software Development, Object-oriented Programming, Artificial Intelligence, Cloud Computing, Computer Architecture