

RIAN RAHMAN

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EDUCATION

Georgia Institute of Technology

Bachelor of Science Degree in Computer Science

Atlanta, Georgia

Expected Graduation: May 2024

EXPERIENCE

Georgia Tech's Vertically Integrated Project Program

Research Assistant for RoboSense Project

Atlanta, Georgia

January 2022 - December 2022

- Encoded an AI-based face recognition algorithm for miniature robotic blimps and autonomous underwater vehicles using TensorFlow, NumPy, and OpenCV
- Incorporated a Raspberry Pi for blimp which parses data from face recognition algorithm and uploads it onto an SSH server
- Created a Python to MATLAB GUI that remodels a blimp's pathfinding with an improved 30% in image quality and accuracy detection through deep learning techniques
- Facilitated with a team of eight to design a blimp that successfully broadcast a Georgia Tech basketball game to over 1,000 people.

NCR Corporation

Software Engineer Intern

Atlanta, Georgia

May 2022 - August 2022

- Constructed RESTful APIs using Go and Java Spring Boot, standardizing request/response format for consumer-related data
- Developed an RBAC configuration dashboard for NCR's Business Services Platform, displaying GraphQL API data for over 60 million calls from 100+ partner organizations with Next.js and Material UI
- Extracted and visualized API data in Chart.js for top 10 organizations, enterprise units, and endpoints by total calls
- Embedded dashboard with an HTML viewer, which edits and renders 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 Franklin College of Arts and Sciences

Teaching Assistant for CSCI 1301 (Intro to Computing & Programming)

Athens, Georgia

June 2021 - December 2021

- Provided feedback on weekly Java labs related to fundamental programming techniques for ~120 students over two semesters
- Contributed to 12 Java assignment evaluation tools that would automate the grading of student submission in under 5 seconds

PROJECTS

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

github.com/RiRah123/EatCode

- Engaged with seven teammates to develop a software engineering technical interview training website in React that provides 200+ 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

Audur | Flask, AWS, Amazon EC2, HTML, CSS

github.com/RiRah123/Audur

- 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
- Won top 10 out of 401 teams (4,800+ participants) with project patented and presented to NCR's Executive Leadership Team

SKILLS

Languages: Java, Python, C/C++, JavaScript, TypeScript, SQL

Frameworks & Libraries: React, Material UI, Next.js, React Native, D3.js, JavaFX, Spring Boot, NumPy, Pandas, PyTorch, Chart.js

Developer Tools: Jira, Postman, Figma, Terminal, Emacs, Git, GitHub, Docker, JUnit, VSCode, AWS ECS

Concepts: Agile Development Process, Data Structures & Algorithms, RESTful APIs, Human-Computer Interaction, UI Design, Data Visualization, Software Development, Object-oriented Programming, Systems Programming, Data Manipulation, Objects & Design