ROHIT BARICHELLO

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EDUCATION

Texas A&M University

College Station, Texas

B.S. in Computer Engineering, Minor in Mathematics

August 2018 – December 2022

• Relevant Courses: Distributed Systems, Computer Networks, Operating Systems, Cloud Computing, Parallel Computing

TECHNICAL SKILLS

Tools: TCP Networking, PostgreSQL, MongoDB, AWS, REST APIs, gRPC, Node.js, Git, Docker, React.js, Django **Languages:** Python, C/C++, Java, Bash, Go, JavaScript/Typescript, SQL

PROFESSIONAL EXPERIENCE

Georgia Tech Research Institute (GTRI)

Atlanta, GA

McLean, VA

Software Engineer Intern

August 2022 – December 2022

- Built a hardware testing environment, enabling radar functionality verification for 4 defense contractors
- Contributed 2 full-stack features to a monolithic codebase using Django and React.js, improving observability
- Redesigned the team's deployment and unit-testing procedure using Daphne servers, Selenium, and the Django Test Framework, increasing CI/CD efficiency by 40%
- Created a log analysis solution to facilitate vendor audits and standardize information entering GTRI's message-viewer app from multiple sources

Capital One

Software Engineer Intern

June 2021 – August 2021

- Developed a credit card pre approval tool for small business owners, **doubling** the card application retention rate
- Optimized data consumption from internal microservices, reducing render time for key pages by 60%
- Implemented efficient decisioning logic based on user data to recommend cards to capitalone.com users

iSenpai Reston, VA

Software Engineer Intern

May 2020 – *August* 2020

- Built the backend and API of a tool that scores and indexes websites based on their level of web accessibility
- Automated the website scoring procedure using Python, increasing the data collection rate by 250%
- Refactored a legacy codebase to mitigate security threats, including injection, poor logging, and data exposure
- Wrote 12 pages of documentation to outline the tool's architecture and data flow, facilitating future contributions

SpaceCRAFT VR College Station, TX

Research Technician

September 2019 – December 2019

• Improved the realism of images rendered in a VR space mission simulation by emulating CMOS camera noise with Python

PROJECTS

Hand-Controlled Quadcopter

- A computer-vision-based quadcopter controlled with hand movements instead of a remote controller
- Built from scratch, integrating a multithreaded Python script, OpenCV, PPM signal communication protocol, a Raspberry Pi, a flight controller board, and a hand-gesture detection algorithm

ACTIVITIES & LEADERSHIP

TAMUhack

Logistics Director

College Station, TX

March 2020 – *March* 2022

• Organized logistics and day-of operations for 4 24-hour hackathons with 750+ attendees

Student Engineers' Council (SEC)

College Station, TX

Systems Administrator

December 2020 – December 2021

- Led a committee of 14 in the development of SEC technologies, including 10 websites and automation tools
- Designed technical solutions for the engineering career fair, servicing 15,000 student