ROHITH YENUMULA

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Raleigh, NC

WORK AND RESEARCH EXPERIENCE

Associate Software Engineer
Fidelity Investments

📅 01/2021 - Ongoing 📍 Durham, NC | Boston, MA

Full-stack Software Engineer for the *Fidelity Brokerage Technology* team
- Responsible for building the Personal Investing and Workplace Investing technology platforms

Research Experiences for Undergraduates (REU) program researcher
National Science Foundation

📅 09/2020 - 01/2021 📍 Raleigh, NC

Link to acceptance email

Received funding from the NSF for my research with Dr. Chau-Wai Wong surrounding Deepfake detection, Physiological parameter sensing for COVID-19, and Microstructure capturing.
- Developing a mobile and web camera GUI and mobile application for physiological parameter estimation of potential patients with COVID-19
- Roles include handling python code refactoring, python to C++ transcoding, and the development of GUI frameworks via wxWidgets in both Python and C++.

Software Engineering Intern (Year-Round)
SAS

📅 09/2018 - 12/2019 📍 Cary, NC

A leading developer of analytics, artificial intelligence, and data management software
- **Engineered a new quota readjustment page for SAS OpenStack.** Added an API that accesses tenant resource usage and disables the option to request for a quota adjustment via ServiceNow if less than 15% of allocated quota is currently in use. *Effectively reduced ServiceNow request traffic by about 9%.*
- **Collaborated with Singapore teams to standardize their AKS deployment process and architecture for all AKS regions.** Published official documentation for Azure CLI and Kubernetes to expedite the turning of AKS regions.
- **Developed the landing page for SAS Analytics Cloud.** Helped architect and develop the full stack for the Jupyter Lab notebook and Admin pages.

EDUCATION

M.S., Computer Science (Part-Time)
North Carolina State University

📅 01/2021 - Ongoing 📍 Raleigh, North Carolina

B.S., Electrical and Computer Engineering
North Carolina State University

📅 08/2016 - 12/2020 📍 Raleigh, North Carolina
- **Selected Course Projects:**
- Designed an MSP430 Microcontroller-run vehicle that identifies and drives over black tape
- Coded a CPU using Verilog
- Wrote a collection of code optimization algorithms in C++ and bitcode generators for C-- using C++, Yacc, and LLVM IR

IT PERSONAL PROJECTS

DataFlow Website
🔗 https://github.com/ryenumu2/DataFlow-Website

A website I built in React that helps fellow computer programmers with data structures and widely used languages such as React and GraphQL. I write articles covering various computer science topics, and also provide a forum space for users to discuss their programming journey, and help each other on the way.
- Users can sign-up, log-in, and reply, favorite, post comments.
- Started a YouTube channel alongside this website that walks through solving commonly asked data structure questions

python database from scratch
🔗 https://github.com/ryenumu2/Python-Database

Developed a python database from scratch that allows users to store, retrieve, and delete key-value pairs to disk. Designed a binary tree structure to hold persistent data.

WORK AND RESEARCH EXPERIENCE

IT Support and Delivery Intern
SAS

📅 03/2017 - 09/2019   📍 Cary, NC

A leading developer of analytics, artificial intelligence, and data management software

- **Developed dockerized python scripts** to automate test cases company-wide for the SAS Analytics Cloud page.
- **Closed several ServiceNow tickets** a day, ranging from providing VM space for new projects and adding new quota flavors, to providing technical assistance for customers.

ACCOMPLISHMENTS AND ACCOLADES

2nd place in IBM Built on Cloud
2020 NCSU Lulu eGames

📅 05/2020 - Ongoing   📍 Raleigh, NC

Link to Event. Click on 'IBM Built on Cloud' to see my name.

Link to Seamless landing page I coded (About the app)

- Engineered an e-commerce fashion app that provides for an engaging and efficient shopping experience
- Software developer for the application responsible for OAuth, Google Authentication, GraphQL JWT token implementation, and front-end design using React Native and CSS.

Placed Top 16 in Y Combinator
2019 Y Combinator Hackathon

📍 Mountain View, CA

Event Information

Proof of Acceptance

- Participated in the 2019 Y Combinator annual hackathon where groups were required to ideate and engineer a software idea in 24 hours
- Engineered a social media application from scratch using React Native for the iPhone

IT CLUB INVOLVEMENT

Feed the Pack: Front-End Developer

Community-based initiative built to counter food insecurity felt by members of the Wolf Pack family

📅 01/2020 - 05/2020

- Helped the frontend development team responsible for the inventory UI screens and internal tool designs
- Assigned tasks and sprints on GitHub and maintained deadlines for each of the frontend development teams

TOOLBOX

RELEVANT COURSES TAKEN

Data Structures in C++

Object-Oriented Programming
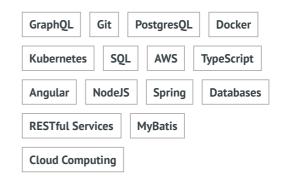
Machine Learning

Compilers and Optimization   Discrete Math

Computer Systems (Assembly)

Algorithm Design   Computer Networking

TECHNOLOGIES

GraphQL   Git   PostgresQL   Docker

Kubernetes   SQL   AWS   TypeScript

Angular   NodeJS   Spring   Databases

RESTful Services   MyBatis

Cloud Computing

LANGUAGES

Python
Advanced

HTML & CSS
Advanced

React & React Native
Relatively Advanced

Javascript
Relatively Advanced

Golang
Intermediate

C++
Intermediate