ROHIT CHAND

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Education

Carnegie Mellon University
B.S. Electrical and Computer Engineering | Dec 2024
GPA: 3.54/4

Skills

PROGRAMMING LANGUAGES

Python
C
Java
HTML/CSS
SQL
LaTeX
MATLAB

TOOLS/FRAMEWORKS

GraphQL
Unix
Jira
Git
Docker
MongoDB

COURSEWORK

18-213: Computer Systems
18-220: Electronic Devices and Analog Circuits
15-122: Principles of Imperative Computation
15-112: Fundamentals of Programming and Computer Science
18-100: Introduction to Electrical and Computer Engineering

Awards

Governor Laura Kelly · Kansas Governor's Scholar — May 2021

USACO · USA Computing Olympiad Gold Division — Feb. 2021

India Association of KC · Academic Achievement Scholarship — Dec. 2020

Employment

PayIt — Kansas City, Missouri
Software Engineering Intern — May 2022 to Sept. 2022

- Collaborated with the backend team to design, define, and implement GraphQL types and resolvers to provide the necessary data upstream to frontend teams.
- Migrated several GraphQL schemas from depreciated repos to new Java services.
- Maintained and updated GraphQL unit and integration tests for behavior validation.
- Created multiple custom scalar types (i.e. Date, DateTime, Money) that lived on an internal library for easy pull in across all micro-services.

T-Mobile — Overland Park, KS
Software Engineering Intern — June 2021 to Aug. 2021

- Utilized API calls and Angular framework to create an error catching system for statement, payment, talk, text and data usage history to provide a better personalized user experience for new clients on B2B application.
- Improved UI components by adding new verbiage, style, padding, and fonts to flow side-by-side with error catching system for better clarity which helps customers when running into error screens.
- Developed automatic set of unit tests to run during production testing on Git commits in order to decrease time needed for team members to identify and fix bugs while monitoring changes in application production in future.
- Engaged with team members, managers, product owners, and clients during Scrum ceremonies to improve development.

MIT Lincoln Laboratory — Lexington, MA
Research Intern — June 2020 to Aug. 2020

- Built a Raspberry Pi Based Bluetooth signal collection platform to explore effects of Bluetooth Low Energy for PACT consortium.
- Designed and tested algorithm for broadcasting and interpreting data from two decentralized devices at a time to estimate distance from RSSI values while in various temperature, pressure, humidity and wind speed conditions.
- Collaborated with mentors and other students to analyze data and findings to attempt to construct a similar algorithm for Covid-19 contact tracing with mobile devices.

Projects

Automated Calendar/Task Scheduler — Nov. 2021 to Dec. 2021

- Built a GUI application using Python-Tkinter that displays added calendar events and automatically schedules to-do tasks alongside events
- Uses backtracking to optimally place to-do tasks into the calendar considering priority, availability, and rest-time

Meteorological Factors on Contact Tracing — Aug. 2020 to May 2021

- Added to MIT Lincoln Lab research to find the effects of meteorological conditions (pressure, temperature, humidity, wind speed) on Bluetooth-low energy
- Deployed a Python-based Raspberry Pi data collection platform into a Wireless sensor network to gather data on Bluetooth signals sent between two Raspberry Pi devices
- Created various meteorological conditions that effectively altered pressure, temperature, humidity, and wind speed that devices could commonly experience in nature
- Used Pandas, Matplotlib, NumPy, SciPy to extract data, create data tables and scatter plots, and produced a correlation analysis between the change of factors to the strength of the produced Bluetooth signal