

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
Angular

TOOLS/Frameworks

Jira
Unix
CAD
Git
Scrum

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

Paylt
Software Engineer Intern
TBD

Kansas City, Missouri
May 2022 to Current

T-Mobile
Software Engineer Intern

Overland Park, KS
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.

Mathnasium
High-level Instructor

Overland Park, KS
June 2020 to June 2021

- Tutored students from elementary to high school, dominantly with students in higher Honors/AP courses.
- Implemented new tutoring techniques from participating in training and development sessions to enable adaptive teaching methods to meet students' needs and interests.
- Managed student's tutoring plans and adjusted plan based on student's previous knowledge and learning habits.

MIT Lincoln Laboratory
Research Intern

Lexington, MA
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 beautifully 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

The Effect of Meteorological Factors on Bluetooth-based 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

Activities

CMU Business Technology Group · Front-end Developer
Creating web application integrated with CMU's postal service for students to select a pick-up time for their packages in order to enable self-service and reduce student wait times at office.

Oct. 2020 to Current

CMU Sahara · Assistant Captain

Lead high energy practices and choreography for competitive fusion competitions to showcase and promote Indian culture and diversity.

Aug. 2021 to Current