Vatsal Chandel

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EDUCATION

University of Washington (Seattle)
Bachelor of Science in Human Centered Design-Engineering, June 2024
- GPA: 3.85, Dean's List: Fall 2021, Winter 2022, Spring 2022, Fall 2022
- Data Structures, Fundamentals of Computer Science I & II, Data Science, Multivariable Calculus, Calculus Physics, Matrix Algebra

Languages and Technologies

- Python, Java, R, HTML, CSS, JS, C++, C
- Git, Excel, BigML, Tableau, FIGMA, SpringBoot, Kafka, Ionic, Android/Android Studio, REST API, ShinyApp,

EXPERIENCE

Software Engineer Researcher | University of Washington Traffigram: January 2023 – Present
- Assisting in the development in graph/node TPS visualization algorithm
- Developed algorithms to create Isochrones through Jupyter Notebooks to show to potential customers
- Assisted in the development of a usable prototype through a REACT App to show potential buyers

Software Engineering Intern | T-Mobile: June 2022 – September 2022
- Assisting in the development of DaaS, covering various REST API using SpringBoot, allowing users to retrieve voicemail, receive and make calls and texts
- Used SpringBoot and Kafka to ensure safe messaging with proper Producer and TrueStore certifications

Teaching Assistant in Paul Allen School of Computer Science | University of Washington: March 2022 – Present
- Delivered 11 weekly lectures on Python to 30+ students, walked through coding problems, debugged student's code
- Provided assistance to students for assignments, assisted in development of course material and assessments

PROJECTS (More on GitHub)

HCDE Research- The work that I created during my time as an undergraduate researcher at UW
- Developed usable prototypes of an isochrone generator through Jupyter Notebooks as a POC
- Assisted in the development of a TPS algorithm to be implemented in a REACT App to distribute to buyers

ObserverTool - An app that allows students to observe animals, submit notes and get credit
- Used Java, FIGMA, and Android Studio
- Developed UI screens on FIGMA, recreated on Android Studio

NamesApp - A Google Play Store app, to get meaning, gender, and background on any name
- Used Java, REST APIs, Developed UX using Android Studio
- Packaged and published on Google Play Store

Personal Website - https://vatsal.vercel.app/
- Used JavaScript, HTML, and CSS to create a personal website, hosted on Vercel
- Created a personal website talking about me and some of the things that I have done

ClassOpener – A tool that launches meetings links automatically at the right time, easing student life
- Used Python and Tkinter
- Created UI that easily allows users to input meeting info (links and time)
- Automatically launches meetings at the right time