Vatsal Chandel

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EDUCATION

University of Washington (Seattle)
Bachelor of Science in Human Centered Design-Engineering, June 2025
- GPA: 3.89 (major), Dean's List: Fall 2021, Winter 2022, Spring 2022, Fall 2022, Spring 2023
- Data Structures, Fundamentals of Computer Science I & II, Data Science, Multivariable Calculus, Calculus Physics, Matrix Algebra, Applied Math

Languages and Technologies

- Slack Bot, SpringBoot, Kafka, REST API, Azure/DevOPs, REACT, Android Studio, Git, BigML, Tableau, FIGMA, Ionic, ShinyApp, Excel.
- Python (numpy, osmnx, matplotlib, cv2), Java, R, C++, C, C#, HTML, CSS, JS.

EXPERIENCE

Software Engineer Intern | Starbucks: June 2023 – September 2023
- Collaborated on the development of a Slack Bot to monitor Marketers Offerings through the different stages of the offering pipeline within different Azure components.
- Enhanced user experience by leveraging Cheetah API services to provide users personalized recommendations.

Software Engineer Researcher | University of Washington Traffigram: January 2023 – Present
- Collaborated on the development of an innovative graph/node TPS visualization algorithm.
- Designed and implemented advanced algorithms in Jupyter Notebooks to generate isochrones and demonstrate their values to potential customers.
- Contributed to the creation of a user-friendly prototype using a REACT App showcasing its potential to buyers.

Software Engineering Intern | T-Mobile: June 2022 – September 2022
- Contributed to the development of Data as a Service (DaaS), leveraging SpringBoot to implement REST APIs, enabling users to retrieve voicemail, make and receive calls, and send texts.
- Utilized SpringBoot and Kafka to implement secure messaging, with proper Produce and TrueStore certification.

Teaching Assistant | University of Washington Paul Allen Computer Science: March 2022 – Present
- Conducted 11 engaging weekly lectures on Python, guiding a diverse of 30+ students through coding problems and effectively fostering their understanding.
- Collaborated with the course instructors in developing comprehensive course material and assessments.
- Offered personalized support to students, assisting with assignments and debugging their code.

PROJECTS *(More on GitHub)*

HCDE Research- https://www.traffigram.com/
- Developed and implemented function prototypes of an isochrone generator, demonstrating proof of concept
- Assisted in the development of a TPS algorithm to be implemented in a REACT App to distribute to buyers

Personal Website - https://vatsal.vercel.app/
- Developed a dynamic persona website using JavaScript, HTML, and CSS hosted on Vercel
- Designed and implemented a comprehensive online presence showcasing my background

ObserverTool - An app that allows students to observe animals, submit notes and get credit
- Utilized Java, FIGMA, and Android Studio to develop an innovative app that enables students to observe animals, submit notes and earn credit
- Designed intuitive UI screens using FIGMA and translated them into function interfaces within Android Studio

NamesApp - A Google Play Store app, to get meaning, gender, and background on any name
- Developed using Java and REST APIs, providing users with the meaning, gender and background for names
- Packaged and published on Google Play Store