

Vatsal Chandel

VatsalChandel@gmail.com | [GitHub](#) (VatsalChandel)

EDUCATION

University of Washington (Seattle)

Bachelor of Science in Human Centered Design-Engineering, June 2025

- GPA: 3.89 (major), Dean's List
- Data Structures, Fundamentals of Computer Science I & II, Data Science, Applied Math

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.
- Streamlined offer pipeline visibility for marketing and engineering teams, reducing comprehension time.

Software Engineer Researcher | University of Washington Traffigram: January 2023 – June 2023

- 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

Languages and Technologies

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