

# Yash Katwal

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## EDUCATION

### University of Washington

*B.S in Informatics: Software Development | B.A in Geography: GIS & Data Science*

Seattle, WA

Sep 2019 – Jun 2023

## EXPERIENCE

### Software Engineer Intern

Jan 2025 – Jun 2025

*Apple*

Seattle, WA

- Developed Python automation scripts and leveraged internal AI APIs to automate log analysis, data extraction, and organization for Apple Vision Pro.
- Developed interactive dashboards using Python and JavaScript providing clear visualizations of bug trends, performance indicators, and processed log data for improved debugging.
- Performed root cause analysis on software defects by systematically examining device logs and user reports, collaborating with engineering teams to accelerate issue resolution and improve application stability.

### Freelance Developer

Jun 2023 – Jan 2025

*Self Employed*

Seattle, WA

- Developed informational, personal, and commercial websites for clients using React, Next.js, Node.js and more.
- Spearheaded the development of interactive web platforms using React, Node.js, and Socket.IO, integrating an unofficial TikTok API to drive real-time user engagement through donations, likes, and follows, resulting in a 175% revenue increase.

### Full Stack Developer

Jan 2023 – Mar 2023

*Adios COVID & UW iSchool*

Seattle, WA

- Developed a full stack COVID data website for researchers using Next.JS and Agile methodologies, incorporating AWS Lambda powered API endpoints for efficient data retrieval.
- Implemented interactive data visualizations using Mapbox GL JS and D3.js, leveraging the custom API to present complex COVID data trends effectively.

### Software Development Intern

Oct 2020 – Jun 2023

*SDP Research Lab*

Seattle, WA

- Developed and deployed interactive web maps (HTML, JavaScript, GIS libraries) supported by a custom-designed NoSQL (MongoDB) database for efficient data retrieval and NodeJS authentication.
- Created an image gallery using PHP, JavaScript, and SQL to provide access to historical images.

### Data Science Intern

Jan 2021 – Jun 2022

*Abrahms Research Lab*

Seattle, WA

- Utilized Python to train machine learning models to distinguish lion roars from other sounds for field research.
- Tracked, analyzed, and visualized wild dog behavior with dog collar data using Python, R and QGIS.

## PROJECTS & ACTIVITIES

### Project Manager

Jun 2021 – Jun 2023

*South Asian Student Association*

Seattle, WA

- Planned and acquired project schedules, budgets, support teams, marketing plans, stakeholder syncs, and more.
- Engaged with UW community, alumni and other school organizations and executed large scale events.

### IT Help Desk Assistant

Jan 2022 – Jun 2023

*UW Academic Technologies*

Seattle, WA

- Assisted clients with troubleshooting software issues on various hardware items in-person, over the phone, and online
- Researched and documented solutions to technical issues with industry standard applications.

### Full Stack Developer

Mar 2022 – Jun 2022

*Project Divvy-Up*

Seattle, WA

- Developed a React (MVVM) single-page application front-end for splitting and requesting payments.
- Implemented a Node.js/Express REST API with a NoSQL database for user authentication and data persistence.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, Swift, SQL (NoSQL), JavaScript, HTML/CSS, R, Hindi

**Frameworks & Libraries:** React, Node.js, Next.JS, SCSS, jQuery, Bootstrap, Mapbox, Numpy, Pandas, SciKit

**Developer Tools:** Git, Docker, Azure, AWS, VS Code, IntelliJ, ArcGIS, QGIS, Devops, Adobe Creative Cloud