

Ayush Gupta

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Education

University of Washington - Computer Science B.S. | Expected Graduation: Spring 2025

Relevant Coursework: Software Design & Implementation, Hardware/Software Interface, Data Structures & Parallelism, Discrete Math, Programming III

Relevant Experience

Undergraduate Researcher | SEAL Lab UW | Sep 2023 - Present

- Dedicated 15+ hours weekly to rigorous training at SEAL Lab, University of Washington, cultivating expertise in computer science and research methodologies.
- Aspiring member of the Sudoku DevOps team, poised to contribute to software, web, and app development, after intensive preparation and skill-building.

Director of Communications | DEV[0] Computing Club | Oct 2022 - Oct 2023

- Co-founded the club to address entry barriers for first-time programmers, fostering inclusivity and bridging skill gaps.
- Developed and executed the club's **communication** blueprint to attract 50+ members and retain members in a nascent setting.
- Pioneered diverse communication strategies, utilizing social media, email marketing, and event promotions to increase membership by at least 20% every month and unify members.

Data Visualization & Machine Learning Hackathon | DubsTech | Feb 2023

- Under a tight 24-hour window, engineered impactful and innovative data visualizations in **Tableau** for comprehensive analytics of an Australian grocery store's sales.
- Constructed a machine learning linear regression model using **Python**, enabling accurate prediction of future total sales, total cost, and quantity of items sold on 370,000+ data entries.
- Collaborated closely with mentors and iteratively improved solutions to secure a coveted position among the top 3 entries in our competition category.

UX/UI Prototype Hackathon | DubsTech | May 2023

- Conceptualized and designed a pioneering ML/AI app addressing mental health issues, harnessing **Figma's** capabilities to create a groundbreaking solution.
- Identified user pain points and crafted intuitive, user-centric interface designs, amplifying user experience and engagement.
- Drove the design and creative process toward a solution-oriented approach in less than 24 hours.

Python Coding Instructor | Sailor's Learning Nonprofit | Mar 2021 - May 2021

- Guided 10+ elementary students in mastering programming concepts and **Python** language intricacies.
- Developed 50+ hours of curriculum in conjunction with founders and Chief Operations Officer, fostering a positive and empowering learning environment.

Java Coding Instructor | Coding Tomorrow Initiative | Mar 2021 - May 2021

- Facilitated 30+ students' adept understanding of object-oriented programming in **Java**, coupled with a comprehensive grasp of syntax and regulations.
- Devised educational resources to enhance the efficacy of the instructional team and elevate student achievement outcomes and comprehensive learning experiences.

Awards/Certifications

Dubstech - Data Visualization in Tableau & Power BI, **Robert Half International** - Student Scholar, **National Merit**

Scholarship Corporation - Scholarship Recipient, **University of Washington** - Purple & Gold Scholar

Skills

Programming Languages: Java, Python, C++, C, JavaScript

Frontend Development: HTML, CSS, Flask, Django, React, TypeScript, Node.js, Figma, Prototyping, UI/UX Design

Data and Analytics: Data Science, Dashboards, Database Systems, SQL, Tableau, Power BI

Software Engineering: Algorithms, Data Structures, Object-Oriented Design, Linux, Git, Debugging, JUnit Testing, APIs

Soft Skills: Communication, Collaboration, Adaptability, Leadership, Innovative Thinking, Development