

Ayush Gupta

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EDUCATION

The University of Washington, Seattle, WA

Dec 2025

Bachelor of Science, Computer Science w/ Minor in Informatics & Data Science

Certifications: *GitHub Open Source Contributor (All In for Students Cohort Spring 2024), Oracle MySQL Database Service Explorer, Dubstech Data Visualization (Tableau & Power BI), Salesforce Opportunity Management, Microsoft Excel Master*

SKILLS

Software Engineering: *Python, Java, JavaScript, Objective-C, C++, AI, Machine Learning, REST APIs, DevOps, CI/CD, Docker, Kubernetes, Distributed Systems, Web Development, HTML, React, Flask, Django*

Data Science: *R, MySQL, PostgreSQL, DBMS, Spark, Hadoop, Pandas, PyTorch, Tableau, Power BI, Excel*

Automation & Tools: *Selenium, Postman, Test Automation, Web Services, GitHub*

Soft Skills: *Collaboration, Communication, Problem-Solving, Adaptability, Customer Service*

EXPERIENCE

Software Team Lead Intern, Flow AI

Oct 2023 - Present

- Lead a team of 5 interns to deliver an AI B2B SaaS platform, improving sales rep efficiency by 23%.
- Design and implement secure database & server-side features using Python, Django, & SQL; integrated 20+ APIs from ServiceNow, HubSpot, Zoom, and Salesforce.
- Optimize CI/CD pipelines, manage Azure infrastructure, distributed systems, and launch products with Docker and Kubernetes.
- Collaborate cross-functionally with Agile practices, enhancing project delivery speed and quality.

Undergraduate Teaching Assistant, University of Washington Information School

Sep 2024 - Present

- Mentor 25 students weekly on programming fundamentals in R, providing personalized support.
- Create an inclusive learning environment, improving overall student performance and engagement.

Data Analytics & Automation Intern, Nsight, Inc.

Jun 2024 - Aug 2024

- Automated lead-to-opportunity workflows in Salesforce, increasing operational efficiency by 62% through the use of Python and Excel-based automation, creating interactive dashboards in Tableau.
- Analyzed and validated extensive Oracle and Salesforce CRM datasets, ensuring data integrity and accuracy.

Software Automation Intern, Seam

Jun 2024 - Aug 2024

- Developed Selenium-based web scraping systems, automating data extraction across 20+ sources, processing over 10,000 data points daily.
- Built automation workflows in Python for diverse industries, including real estate and product reviews, enhancing data accessibility and user experience.

Undergraduate DevOps Researcher, SEAL Lab University of Washington

Sep 2023 - Dec 2023

- Committed 15+ hours weekly to DevOps research, gaining experience in technical writing, internal communication, and automation development.

PROJECTS

- **Beacon:** 1st place Hackathon winner out of 80+ teams; developed prototype of disaster response app to address communication gaps during emergencies.
- **SimpleDB:** Built a fully functional relational database system built from scratch in Java. Showcases a complete backend architecture, including query processing, memory management, concurrency control, transaction logging, and more.
- **Mini Google Search Engine:** Built a full-stack mini search engine in C/C++ from scratch that indexes files, stores data on disk, and serves ranked search results via a multithreaded HTTP server with browser support.
- **RateMyProf Assistant Chrome Extension:** Integrated professor ratings into UW's MyPlan platform for 100+ users, simplifying course selection by providing real-time data on professor and course difficulty using JavaScript.
- **UW CourseKeeper Chrome Extension:** Streamlined UW course registration for 60+ users by providing one-click SLN access and synchronizing course notifications from MyPlan and Notify.UW for students.