

# Aagney Iyer

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## Education

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**University of Washington, Seattle, Paul G. Allen School** Sep. 2022 – Jun. 2026

B.S. Computer Science | Math Minor | Honors Program

- 2022 Honors Scholar: Full Tuition Merit Scholarship
- Coursework: Data Structures, Algorithms, AI, ML, Computer Vision, Systems, Databases, OS, Linux
- Skills: Java, Python, C/C++, JavaScript, HTML/CSS, AWS, SQL Server, JUnit

## Technical Experience

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**Junior Software Engineer, Amazon** Aug. 2024 – Present

- Deploy **machine learning** models to automate protection of 15,000 brands from IP and copyright infringement.
- Leverage **Java**, **Scala**, and **AWS CDK** with **TypeScript** to continuously cache data and monitor deployment.
- Fine tune 2 image detection and large language models alongside applied scientists, identifying text and logos.

**Undergraduate Teaching Assistant, University of Washington Allen School** Sep. 2023 – Present

- Database Systems (CSE 414): Teach **SQL**, **data modeling**, and **cloud databases** in sections and office hours.
- Direct Admit Seminar (CSE 190): Present department-related advice and tips to 350+ first-year students.
- Grade assignments, monitor discussion forum, and coordinate course logistics with 30+ fellow TAs and faculty.

**Software Engineer Intern, Accenture** Jun. 2024 – Aug. 2024

- Automated fiscal report generation for a government eligibility system with 5.1M monthly users.
- Leveraged **Python API** for **Apache Spark** and **MySQL** to query 200,000 rows of metadata in **Amazon S3**.
- Ran jobs on **Amazon EMR** and **EC2**, ingesting **Oracle** data into **data lake** to optimize runtime by over 150%.
- Delivered two client-facing dashboards and **Amazon RDS** tables to production, saving BatchOps 2 hours weekly.

**Undergraduate Researcher, University of Washington Applied Hearing Lab** Jan. 2023 – Present

- Engineered an ADA-accessible app for self-directed hearing aid tuning using **React**, **TypeScript**, and **Node.js**.
- Achieved 25% improvement and presented to 150+ grant sponsors at Northwest Auditory Research Meeting.
- Developed a field research tool with **Amazon EC2** and **DynamoDB** to store 45 users' audio and survey data.
- Collaborated with Cochlear Limited to model speech perception with a signal processing algorithm in **MATLAB**.

## Other Experience

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**Academic Success Coach, University of Washington** Sep. 2023 – Jun. 2024

- Offer support, resources, and success strategies to fellow Allen School students 1:1 in 30 minute sessions.
- Led 50+ sessions with 40 unique students, navigating sensitive conversations while maintaining professionalism.
- Present workshops to campus partners and engage in hiring committees for Allen School roles.

**Entrepreneurial Leadership Program, Bain & Company** Jun. 2024

- Investigated rationalization opportunities for a tech client, visualizing over 60,000 rows of data with **R** and **SQL**.
- Fulfilled two Request for Proposals in a corporate performance improvement team, presenting to partners.

## Projects & Extracurriculars

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**Disk-Based Search Engine, Systems Programming (CSE 333)** Nov. 2023

- Implemented memory-safe data structures for a directory tree and on-disk inverted index using **C++**.
- Utilized concurrent networking to allow multiple clients to interact with search engine and query web server.

**SimpleDB, Database Internals (CSE 444)** Mar. 2024

- Relational database manager built from scratch in **Java** with SQL query parsing and thread-safe transactions.
- Includes least-recently used cache for optimized data retrieval; received 100% score and 4.0 course grade.

**Unify Case Competition Winner, University of Washington Consulting Association** Jan. 2023

- Wireframed mobile AR wayfinding integration and collaborative filtering for Costco Wholesale using **Figma**.
- Voted best pitch against 15 teams by Accenture & Boston Consulting Group analysts; earned \$2,000 cash prize.