

# Deetya Kamat

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## Education

**University of Washington – Paul G. Allen School of Computer Science & Engineering** Seattle, WA  
B.S. Computer Science, Minor in Business Administration *Expected Dec 2026*

- Dean's List Recipient, Microsoft Endowed Scholarship (2024)
- **Relevant Coursework:** Machine Learning, Data Structures (Java), Systems Programming (C, C++, Git), Tools (Linux, Git), Software Design/Implementation (JavaScript, TypeScript), Calculus, Linear Algebra

## Technical Skills

**Languages:** C++, Java, Python, JavaScript/TypeScript, C

**Frameworks/Libraries:** React, Express.js, Pandas, NumPy, Scikit-learn

**Tools:** Linux/UNIX, Git, REST APIs, MongoDB, Figma, OAuth 2.0, API Development, Databases

## Projects

**Multithreaded Search Engine – Systems Programming (CSE 333 Project) - C, C++, POSIX** July 2025 - August 2025

- Designed and implemented a scalable, multithreaded query-based search engine with efficient file indexing and memory management.
- Optimized data structures for efficiency, gaining hands-on experience with systems programming concepts such as synchronization and dynamic memory handling.

**Expense Management System - React, Express.js, MongoDB**

August 2025 - Ongoing

- Built a full-stack web application for tracking and categorizing personal expenses with real-time data visualization.
- Integrated MongoDB database for scalable data storage and retrieval, and managed version control via Git.
- Developed REST APIs for seamless frontend-backend communication.

**Spotify ML Recommender - Python, Spotify API, ML**

July 2025 - Ongoing

- Integrated Spotify API to analyze listening patterns and generate custom recommendations.
- Built data pipelines to extract audio features for recommendations.
- Developing clustering-based recommendation algorithms to generate personalized recommendations for sample users.

## Experience

**UW HFS**

Seattle, WA

*Desk Services Representative*

January 2025 - Present

- Resolved inquiries and issues related to housing, facilities, and student resources efficiently with strong problem-solving and communication skills.

**Anagha's Math**

Sammamish, WA

*Teacher*

Sept 2019 - June 2023

- Mentored students in analytical and problem-solving skills, strengthening ability to teach complex technical concepts clearly.

## Leadership & Activities

**GEN1 @ UW – First-Generation Computing Organization**

Seattle, WA

*Vice Chair*

May 2025 - Present

- Managed organizational infrastructure and streamlined program operations.
- Launched GEN1Interns recruitment program to provide mentorship for aspiring first-generation students in leadership.

*Student Relations Officer*

May 2024 - May 2025

- Created biweekly newsletters with 70% open rate highlighting student experiences and events.

**Other Involvement:** Interactive Intelligence (I2), Microsoft Endowed Scholar