

Shashank Sreepathi

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EDUCATION

University of Washington, Seattle

Seattle, WA

Bachelor of Science in Computer Science

Sep. 2022 – June 2026

- Expected Graduation: June, 2026
- GPA: 3.74
- **Courses:** Data Structures, Algorithms, Data Management, Software Design and Implementation, Discrete Math, Parallelism, Probability and Statistics, Linear Algebra, Software/Hardware Interface, Systems Programming, Operating Systems, Programming Languages, Machine Learning, Artificial Intelligence

EXPERIENCE

Incoming SDE Intern

June 2025 - Aug. 2025

Amazon

Seattle, WA

Undergraduate Researcher

Jan. 2025 - Present

University of Washington

Seattle, WA

IT Intern

June 2023 - Aug. 2023

Lavner Education

Seattle, WA

- Resolved hardware/software issues efficiently by responding to tickets, ensuring minimal technology issues
- Provided IT support to 100+ people across multiple Seattle locations

PROJECTS

Xk Operating System | *C, Linux*

- Designed and implemented core OS functionalities, including system calls, process scheduling, memory management (e.g., copy-on-write), and file operations (creation, deletion, persistent storage).
- Developed a crash-safe logging mechanism to ensure file system consistency and data persistence during system crashes.

Statsify | *Flask, Spotipy, Python, Spotify*

- Designed a Flask based application to analyze and visualize Spotify listening trends for authenticated users
- Integrated OAuth2 authentication with Spotify Web API, to ensure secure access and connection
- Extracted metrics such as top songs, listening history, and user profile data using the Spotify Web API
- Implemented functionality for the user to add their top songs into a customized playlist

Verbatim | *React, NodeJS, ExpressJS, Typescript, CSS, HTML*

- Developed a full-stack application with 4 people that helps users improve English language skills through interactive speaking exercises
- Used OctoAI to generate real time prompts, to help users practice with common conversational topics
- Developed a word bank, allowing users to practice speech with AI-powered pronunciation, for accurate learning

Mini-Google | *C, C++, Linux, HTML, POSIX*

- Developed local web server from scratch, which receives and responds to requests in real time as a search engine
- Designed data structures from scratch to respond to user query from, including a file saver
- To ensure reliability and robustness, the server was designed and executed against unit tests and security protocols
- Implemented security checking, to avoid directory traversal and cross-site scripting attacks
- Developed using multi-threading and memory optimizations to achieve 1.5x execution speed

NFL Quarterback Rating | *Pandas, Plotly, Matplotlib, Python*

- Scraped and analyzed over 25 years of NFL data, covering every recorded game played by top quarterbacks
- Performed extensive graph analysis, measuring performance trends against metrics such as game conditions
- Evaluated statistical significance through rigorous bias testing to ensure validity of the data
- Designed effective visualizations to showcase findings, presenting the top 5 quarterbacks based on the data

TECHNICAL SKILLS

Languages: Java, Python, SQL, TypeScript, HTML/CSS, Javascript, C/C++

Frameworks: React, Node.js, JUnit, Express.js, Pandas, NumPy, Matplotlib

Developer Tools: Git, VS Code, Github