

# DAVID WOO

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## EDUCATION

**University of Washington**  
*Bachelor's, Computer Science*

**January 2021 - December 2023**  
*GPA: 3.61*

## SKILLS

**Programming Language:** Java | C | C++ | JavaScript | Python | HTML/CSS  
**Frameworks:** Node Js | Django | Flask | React | Nextjs | Frontend | Backend  
**DevOps:** Git | Sqlite | AWS | DynamoDB | NoSQL | SQL  
**Relevant Course:** Cloud Computing | Data Structures | Algorithms | Computer Engineering | OS

## PROFESSIONAL EXPERIENCE

**University of Washington**  
*Undergraduate Researcher*

**Bothell, WA, USA**  
*June 2023 - December 2023*

- Transformed the user interface of the Interpretable Machine Learning Platform to deliver a 50% surge in user engagement and successfully lowered user error rates by 20%, elevating the platform's usability and enhancing user experience
- Strengthened a user management system using the Django framework to enable Single Sign-On (SSO) signup and implemented 2FA SMS verification through integration with Twilio, resulting in improved security
- Directed cross-functional efforts to successfully launch an internal application using Gunicorn and Nginx, enhancing operational efficiency; this seamless deployment resulted in a 20% decrease in response time, optimizing user experience and productivity

**Mozzign**  
*Software Engineer intern*

**New York, NY, USA**  
*June 2022 - September 2022*

- Spearheaded strategic collaboration with the UI/UX team to conceptualize and implement a user-centric interface for a medical software client, resulting in a remarkable 25% decrease in user errors and considerable enhancement in user satisfaction ratings
- Optimized the Firebase cloud infrastructure for the application, resulting in a 30% reduction in app loading time and enhanced user experience
- Liaised with a development team to create a healthcare research application that successfully gathered medical data from over 200 patients via user electric devices, facilitating efficient data analysis and contributing to medical research advancements

## PROJECTS & OUTSIDE EXPERIENCE

**AI-Driven SAT Math Platform**  
*Software Developer / AI Project Contributor*

**Seattle, WA, USA**  
*March 2024 - Present*

- Contributed to the development of an innovative AI-driven platform designed to generate SAT math problems, solutions, and detailed explanations with multiple choice options, leveraging the OpenAI API for dynamic content creation
- Spearheaded the implementation of a math formula rendering page, utilizing 'react-katex' combined with 'remark' and 'markdown' node libraries to display complex mathematical equations and formula
- Played a key role in integrating AI-generated content seamlessly into the platform ensuring a coherent and engaging user experience for SAT preparation

**Task Tracker**  
*Web Programming and Design*

*January 2024 - Present*

- Orchestrated the development of a cutting-edge Progressive Web Application (PWA) using Next.js on AWS Amplify, revolutionizing task tracking and time management; enhanced productivity metrics by 40% and reduced project completion time by 30%
- Directed the integration of DynamoDB to streamline database queries, achieving a notable 50% reduction in response time and elevating application performance to meet increased user demands
- Designed high-quality software solutions by prioritizing user experience and optimizing data management for improved efficiency

**Google Summer of Code - JSON Schema Organization**  
*Open Source Contributor*

**Remote**  
*April 2024 - April 2024*

- Developed a comprehensive strategy to expand test coverage using MSW and Jest, integrating unit, integration, and end-to-end tests to elevate code quality and reduce production bugs
- Developed error-catching mechanisms within the script, logging issues without interrupting execution, allowing for continued operation and resilience in data collection
- Engaged in proactive problem-solving and innovation, proposing solutions to enhance project scalability and maintain high quality as the project evolves.