Abreham Tegegne
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https://abegt5.github.io/Abreham-Portfolio/

EDUCATION

University of Washington – *B.S. Computer Science*   *3.7*GPA

Relevant Coursework: Web Development, Computer Simulation, Databases, Artificial Intelligence, Multimedia Data Processing, Usability and User-Centered Design

Backend Technologies: C++, Java, Spring Boot, REST APIS, SQL, AWS, Docker

Skills: Python, React Native, AWS, Firebase, Figma, Git, Jira

WORK EXPERIENCE

TIAA   **Charlotte, NC**
Software Developer Intern Backend   *June 2024 - August 2024*
- Enhanced RESTful API endpoints using Spring Boot to improve system reliability and response efficiency
- Developed an impact report analyzer with AI to automate reviews, reducing manual labor by 120 hours and enhancing the efficiency of the investing team's decision-making process by 27%.
- Refactored Spring Boot API payloads to reduce response size by 15% and enhance system throughput.
- Managed project tasks with Jira, tracking stories, milestones, and code changes via Git. Participated in daily stand-ups and sprint meetings as a dev to ensure timely delivery and alignment with project goals.

Software Developer Intern Frontend   **June 2023 - August 2023**
- Built and optimized interactive web components with HTML, CSS, and JavaScript by refactoring legacy code, modularizing UI elements, and minimizing DOM reflows, improving maintainability and load performance.
- Collaborated in a 3-day hackathon, leveraging generative AI to build an AI Finance Teacher, a Python based web application utilizing the OpenAI API. Awarded People's Choice Award for innovation and execution.
- Helped in the design and implementation of a URL shortener with Flask and Python, streamlining web accessibility and saving internal users hours of time through efficient navigation.

Kenmore Middle School   **Seattle, WA**
UW Bothell Teaching program   *Jan 2025 - Mar 2025*
- Designed and presented Scratch based coding lessons to introduce fundamental programming concepts.
- Planned interactive projects to teach students software engineering principles and problem-solving skills.

PROJECTS

MyBuild *Independent Project*   *June 2025*
- Designed and developed a full featured mobile app for car enthusiasts to showcase vehicle builds, share modifications, and connect with a likeminded community.
- Integrated authentication, real time posting, data storage, and a sleek user-friendly interface, refined experience based on user research and feedback.
- Implemented key features including a dynamic social feed, local event discovery, and a marketplace for parts
- Technologies Used: **React Native, Firebase, Cloudinary, Figma, Android Studio, Xcode**

FormFlow, *Lead Developer*   *September 2024*
- Led the development of an AI-powered web app that translates and summarizes documents, improving readability and accessibility for all users.
- Integrated advanced features like text-to-speech in multiple languages, utilizing the OpenAI API, and dynamic text zooming, significantly enhancing user experience.
- Awarded the winning project at the UW Create Accessibility Hackfest, recognized for its contribution to inclusivity and accessible design.
- Technologies Used**: Python, HTML, CSS, JavaScript, Flask framework, OpenAI API**

AI Finance Teacher   *July 2023*
- Directed the development of an interactive web application using Python and OpenAI's GPT-3 API, delivering personalized finance lessons through AI-generated content.
- Won the People's Choice Award at a TIAA-hosted hackathon for innovative application of AI in financial education, demonstrating the potential of AI to simplify complex financial concepts.

ADDITIONAL INFORMATION

Honors & Certifications: UW Create Accessibility Hackfest winner, TIAA 2023 Hackathon winner, WSOS STEM scholarship, Amazon Campus Prep Series 2025

Interests: Casual Car Enthusiast and Mechanic