Abreham Tegegne

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EDUCATION

University of Washington, Seattle, WA Sept 2021 - June 2025 *Bachelor of Science in Computer Science*   *3.*7GPA

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Databases, Web Development, Computer Simulation, Calculus

Skills: C++, Java, Python, SQL, React, React Native, AWS, Firebase, Figma, Git, Jira

WORK EXPERIENCE

TIAA   **Charlotte, NC**
Software Developer Intern   June 2024 - August 2024
- Refined API data models for RMD transactions by modifying Java classes and adjusting the data being sent. This included working on getters and setters to ensure accurate data representation and smooth communication between services.
- 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.
- Optimized API payloads, reducing response size by 15%, leading to faster processing and improved system performance in Java Spring Boot microservices.
- Managed project tasks with Jira, tracking stories, milestones, and code changes via Git. Participated in daily stand-ups and sprint meetings to ensure timely delivery and alignment with project goals.

Software Developer Intern   June 2023 - August 2023
- Collaborated in a hackathon, leveraging generative AI to build a Python-based web application. Awarded People's Choice Award for innovation and execution.
- Developed and enhanced interactive web features using HTML, CSS, and JavaScript, significantly improving user experience and optimizing website performance.
- Designed and implemented a URL shortener with Flask and Python, streamlining web accessibility and saving users hours of time through efficient navigation.

Kenmore middle school   **Seattle, WA**
After-School Coding Instructor   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, *Capstone Project*   *April 2025*
- Designed and developed a full-featured mobile app for car enthusiasts to showcase vehicle builds, share modifications, and connect with a like-minded community.
- Built the app using React Native, Firebase, and Cloudinary, integrating authentication, real-time posting, and data storage.
- Developed a sleek, user-friendly interface in Figma and refined the experience based on user research and feedback.
- Implemented key features including a dynamic social feed, local event discovery, and a marketplace for car parts.
- Technologies Used: **React Native, Firebase, Cloudinary, Figma, Android Studio, Xcode**

FormFlow, *Lead developer*   *September 2024*
- Led the development of an AI-powered document translation and summarization web application using HTML, CSS, JavaScript, and Python with the Flask framework, improving readability and accessibility for diverse users.
- Integrated advanced features like text-to-speech in multiple languages, utilizing the OpenAI API, and dynamic text zooming, significantly enhancing accessibility and user engagement.
- 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: WSOS STEM scholarship, Tiaa 2023 hackathon winner, UW Create Accessibility Hackfest winner, Dean's List (8 quarters)