NATAN M. KASSA

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EDUCATION

University of Southern California, Viterbi School of Engineering

Los Angeles, CA

Bachelor of Science in Computer Science and Computer Engineering

Graduated June 2024

- **Honors:** Graduated with cum laude honors, Dean's list honors (6 semesters)
- Relevant Coursework: Data Structures and Object-Oriented Design, Distributed Systems, Theory of Computing, Machine Learning, Computer Architecture, Robotics, Introduction to Artificial Intelligence, Cybersecurity, and Probability Theory

EXPERIENCE

Headstarter Seattle, WA

Engineering Fellow/Intern

June 2024-August 2024

- Completed a 2-month software engineering fellowship with a focus on AI development, resulting in 5 innovative AI projects and active participation in 5 hackathons
- Streamlined processes and cleared backlog tasks, reducing project timelines by 4 weeks for a startup

AskAwayOlympics (AI Chatbot Project)

Bellevue, WA

Software Engineer

July 2024-August 2024

- Led integration of OpenAI's GPT 4.0 model via server-side API, delivering dynamic, context-aware responses thereby improving accuracy and relevance of chatbot replies
- Optimized application performance by utilizing Next.js for server-side rendering and efficient routing, achieving a 25% reduction in load times
- Engineered a multilingual chat interface with React.js, enabling real-time communication in 3 languages, increasing user engagement on a global scale

DailyBrief (AI News Aggregation Project)

Bellevue, WA

Software Engineer

June 2024-July 2024

- Created and deployed a news aggregation and summarization application with Flask and FastAPI, enhancing content filtering and reducing information retrieval time by 70%
- Leveraged Supabase for database management and OpenAI's GPT model, achieving 90% accuracy in content summarization
- Implemented web scraping/processing pipelines, optimizing retrieval of articles with Python libraries (Requests, LangChain)

Signal Cycle Solutions

Los Angeles, CA

Software Engineer

January 2024-May 2024

- Developed and extensively tested a bicycle safety system, featuring automated LED turn signals, a sonar-based lane-changing mechanism, and a real-time speedometer using an ATMEGA328P microcontroller
- Designed and implemented hardware and software components to enhance user experience and interaction, meeting needs of thousands of college students and other cyclists in high-traffic areas

Meta Above & Beyond CS Program

Los Angeles, CA

Software Engineer

August 2022-November 2022

- Engaged in hands-on workshops and collaborative projects with Meta software engineers; mastering backend development skills such as C++, Python, and concepts of data structures
- Contributed to code reviews, debugging sessions, and best practices discussions to strengthen technical skills and foster growth

LEADERSHIP AND INVOLVEMENT

East African Student Association

Los Angeles, CA

Member

August 2021-June 2024

• Led cultural shows that fostered social, educational, and cultural connections among East African diaspora and those interested in African culture, promoting engagement in enriching forums

SKILLS

- Boards & Hardware: Arduino Uno, Raspberry Pi, Nexys 4, FPGA Boards
- Tools & Technologies: Git, SSH, Pip, Npm, Vercel, OpenAI SDK, Fetch API
- Programming Languages: C++, Python, JavaScript (ES6), C, HTML, CSS, TypeScript, Dart, Verilog
- Frameworks & Libraries: React.js, Node.js, Next.js, Firebase, Tailwind CSS, Material-UI, Matplotlib, Flask, FastAPI