Bilal Memon

US Citizen| Cupertino, CA 95014 |bila3memon@gmail.com| (669)-264-6166

EDUCATION

University of California, Santa Cruz   **Santa Cruz, CA**

Bachelor of Science (B.S.) in Computer Science   *December 2023*

Relevant Coursework: Data Structures and Algorithms, Database Systems, Computational Models, Artificial Intelligence, Foundation of Program Languages, Computer System Design, Computer Architecture, Probability Theory, Computer Security

Technical Skills

Languages: Python, C, C++, Java, HTML, CSS, JavaScript, TypeScript, SQL, Haskell, R
Frameworks: React, Next.js, Django, Node.js, Bootstrap, Material Ui, RAG
Developer Tools: Git, Docker, VS Code, Firebase, Vercel, Eclipse, WordPress
Libraries: Stripe, OpenAI API, Clerk, Pinecone

WORK EXPERIENCE

Software Engineer   **San Francisco, CA**

Headstarter Software Engineering Fellowship   *July 2024 - September 2024*

- Acquire hands-on experience, by successfully building 5 AI projects, showcasing a strong understanding of machine learning concepts and practical applications, that bridged the gap between academic knowledge and real-world application, enhancing employability.
- Engage with the fellowship's resources and mentors to further develop a strong interest in AI and software development, and to undertake rigorous interview preparation sessions, including coding challenges, whiteboard exercises, and mock interviews.

Freelance Web Developer   **Cupertino, CA**

Website Development for Oakmont Sandwiches   *November 2023 - December 2023*

- Developed a responsive, user-friendly, and customizable website using WordPress
- Designed and implemented an interactive menu display, enabling customers to easily browse selections
- Customized WordPress themes and plugins to ensure the website's adaptability to different screen sizes, maintaining visual appeal and functionality across all devices.

Front Desk   **Cupertino, CA**

YMCA Service Associate   *2018 – Present*

- Resolved customer issues effectively, providing solutions to ensure member satisfaction and retention
- Executed administrative duties such as scheduling, data management, and handling correspondence with proficiency and discretion.
- Processed new memberships, renewals, and handled member account updates focusing on accuracy and service excellence.

PROJECTS

Flashcard SaaS platform
- Integrated Stripe for payment processing.
- Utilized Next.js for front-end development and Firebase for authentication.
- Demonstrates proficiency in modern web technologies, API integration, and handling subscription-based services.

Pacman Capture the Flag -
- Collaborative AI project developing strategic agents for a multi-player Pacman-style game.
- Employed alpha-beta pruning and reflex agents.
- Demonstrated teamwork and AI development skills.
- Participated in round-robin tournaments to enhance competitive strategies.

RAG-Powered AI Assistant for "Rate My Professor" Project -
- Designed and developed an AI assistant using Next.js, Material-UI, Firebase, and the OpenAI API.
- Implemented a RAG framework for real-time, context-aware responses using advanced natural language processing.
- Led the end-to-end development process from data retrieval to deployment.