VIKRAM ELANGO

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EDUCATION

University of California, Santa Barbara   Expected Graduation June 2024
Bachelor of Science in Computer Engineering

Relevant coursework: Intermediate Java Programming, Data Structures and Algorithms, Computer Architecture, Sensor and Peripheral Interface Design, Distributed Systems, Operating Systems, Machine Learning, Algorithm Design, Computer Vision, Artificial Intelligence.

WORK EXPERIENCE

Software Quality Engineer | Magna International   June 2023-Present
- Develop an Internal Quality Assurance Application that markedly streamline log file analysis and error detection, enhancing process efficiency.
- Utilize SQL to navigate databases, unveiling trends and patterns related to failures, which led to a 30% increase in error identification efficiency.
- Executed data analysis efforts, produce comprehensive reports and performance metrics, and drive a 40% improvement in decision-making.

Full-Stack Developer | Functional Health   December 2023-Present
- Lead the enhancement of Functional Health by integrating an AI workout assistant that offers customized fitness plans, dietary guidance, and interactive support, elevating user engagement.
- Utilize Flutter for frontend design and Flask for backend operations to increase app efficiency and user experience.

Manufacturing Engineering Intern | Bay Area Circuits   May 2021-August 2021
- Operated Flying Probe Testing Equipment, utilizing robotic probes to establish electrical connections for PCB testing.
- Executed Manual Point-to-Point Testing with precision, utilizing multimeters to verify continuity between specific PCB points, guaranteeing the integrity of electrical connections.

PROJECTS

Intelligent Bot Finder | Full-Stack Web-Application | Forta Network   September 2023-Present
- Led a full-stack development team of five in the integration of Large Language Models (LLMs) on Forta Network using the GPT API, and Weaviate API for vector databases, significantly enhancing the platform's ability to provide contextually relevant security bot recommendation.
- Developed both the frontend interface and backend architecture for improved search functionality.

Quality Assurance Software | Full-Stack Application | Magna International   June 2023-Present
- Developed a full-stack Quality Assurance Application using Python, with a user-friendly Tkinter frontend, streamlining complex log file analysis, error detection, and data extraction.
- Advanced the software's capability by integrating algorithms to identify sensors with recurring failures post-quality assessment, mitigating the cycle of costly returns and production rework.

Gaucho Ride | Full-Stack Web-Application | UCSB   April 2023-June 2023
- Worked with a team of 6 to code a Full-Stack application revolutionizing campus mobility for students with disabilities through a seamless ride request feature.
- Designed and executed the functionality for users to request rides from any campus location, enhancing accessibility and convenience.

SKILLS

Languages: Python, JavaScript, C++, SQL, HTML5, CSS, Flutter, Dart.
Tools: Github, Selenium, OpenCV, Docker, React, Pandas, NumPy, Tkinter, FlutterFlow.