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, Computer Vision.

WORK EXPERIENCE

Software Quality Engineer | Magna International   June 2023-Present
- As the only software quality engineer in the team, lead the development of a Python-based Quality Assurance Software, significantly optimizing log file analysis and error detection processes.
- Pioneer advancements in QA methodologies, enabling the identification of recurring sensor failures and mitigating expensive product return cycles.
- Leverage SQL to navigate databases, unveiling trends and patterns related to failures, which led to a 30% increase in error identification efficiency.
- Lead data analysis efforts, produce comprehensive reports and performance metrics, and drive a 40% improvement in decision-making as a team lead.

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.
- Conducted thorough Manual Visual Inspections to identify and rectify defects, ensuring PCBs met quality identifying issues such as solder bridges, damaged components, and incorrect placements.
- Executed Manal 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 | Forta Network   September 2023-Present
- Led a full-stack development team of five in the integration of the GPT API into Forta Network's search infrastructure, transforming it into an intelligent application capable of context-sensitive bot recommendations.
- Implemented a GPT API-driven recommendation system using natural language processing.
- Developed both the frontend interface and backend architecture for enhanced search functionality.

Quality Assurance Software | Magna International   June 2023 - Present
- Created a Python-based Quality Assurance Software that expedited log file analysis, error detection, and data extraction, resulting in 95% reduction in processing time, from several days to seconds.
- The Software goes beyond conventional QA. It identifies sensors exhibiting recurring failures even after passing the quality assessment, breaking the cycle of costly returns to production.

Gaucho Ride | React | 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.

Weather Alert Bot | UCSB - University Center   January 2023 - June 2023
- Created a python based bot for real-time weather monitoring and automated employee alerts for adversary conditions.
- Improved workplace safety by providing timely weather alerts and preventive measures through text messages.

SKILLS

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