Elson Paul Real

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Motivated cum laude graduate with strong problem-solving skills and programming knowledge. Dedicated to delivering high-quality software solutions and contributing to company growth as a Software Engineer.

Projects

AI Chatbot Digital Twin
- Led the development of an AI-based chatbot digital twin solution, leveraging NLP and machine learning techniques.
- Collaborated with a multidisciplinary team to define project objectives, develop requirements, and create a roadmap for chatbot implementation.
- Utilized continuous integration and deployment (CI/CD) methodologies to ensure smooth and efficient deployment of chatbot updates and enhancements.
- Technologies used: Natural Language Processing (NLP), Machine Learning, C++, Unreal Engine, Amazon Web Services (AWS)

MaHOMES: A household management application

- Independently performed the whole development with the use of scripting and database languages.
- Implemented a user-friendly login system to save and track user interactions within the application.
- Designed and crafted a responsive graphical user interface to enhance user experience.
- Technologies used: Python, SQL

Education

University of Silicon Valley   **May 2019 – May 2023**
Bachelor of Science: Software Engineering
Honors: Cum laude (GPA 3.72/4.0) | Dean's List

Relevant Coursework: Data structures · Object-Oriented Design · Database Management · Network Systems · Computer Organization & Architecture · Software Quality Testing · Assembly Language Programming · Mobile Programming · Project Management · Software Engineering Methods · Data Mining · Metaverse and Interfaces

Additional Skills

Programming/Scripting languages: Python · C++ · Java · JavaScript · Kotlin · Dart · HTML & CSS
Frameworks: Flutter · PyTorch · TensorFlow · ReactJS · Django · Flask
Databases: MySql · SQL Server · MongoDB · SQLite
Cloud: AWS · Azure · Google Cloud
Software development tools: Git · Bitbucket · Jira · Docker
Soft Skills: Adaptability · Team-player · Critical Thinking · Analytical Thinking · Leadership · Time Management · High Emotional Quotient · Creativity · Planning and Organizing · Data Visualization · Decision Making · Collaborative · Troubleshooting

Work Experience

Service Operation Technician, *Intuitive Surgical, Sunnyvale, CA*   **November 2018 – September 2023**

- Provided technical support of the Da Vinci Surgical Robotic Machine for 5 years, for both hardware and software systems.
- Collaborate with cross-functional teams to escalate and resolve complex technical issues, ensuring minimal disruption to service.
- Conducted regular system maintenance and performance tuning to ensure high availability and reliability of equipment and software.
- Contribute to continuous integration and development of products by providing valuable insights and feedback from the field.
- Performed training and mentoring to junior and senior technicians in multiple areas of the field, enhancing their technical skills and contributing to team productivity.