Tej Panchal

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Summary

Dedicated Software Engineer with robust experience in project management, software development, and AI integration. Proficient in leading cross-functional teams to deliver innovative software solutions that enhance operational efficiency. Adept at managing the full project lifecycle from concept through delivery, with a keen focus on aligning technical projects with business objectives. Committed to leveraging a background in AI and machine learning to drive improvements while staying abreast of industry trends.

Skills

Project Management: Agile methodologies, Scrum, Jira, project planning, cross-functional team leadership
Programming: Java, Python, JavaScript, SQL, HTML/CSS
Software Development: .NET, RESTful APIs, SQL, AWS, Azure
Tools: Jenkins, GitHub, Docker, PyCharm, Eclipse, Jupyter, Figma

Work Experience

Drevol LLC   **Redmond, WA**
Software Engineer   March 2024 - Present
- Spearheaded the development and deployment of software solutions, focusing on enhancing manufacturing efficiency and integration of AI capabilities.
- Managed project timelines and coordinated with cross-functional teams to ensure timely delivery of software products.
- Led the design and implementation of AI-driven features, resulting in a 25% increase in service manufacturing efficiency.
- Oversaw the development of prompt engineering enhancements, significantly improving the performance of business-oriented AI applications.

Niks Real Estate INC.   **Kirkland, WA**
Software Engineer Intern   Sep 2023 - Mar 2024
- Conducted data analysis on property market trends, supporting strategic decision-making through the development of predictive models.
- Developed and managed a machine learning project from inception to deployment, focusing on predicting property values with high accuracy

Peer and Academic Resource Center   **Sacramento, CA**
CS Tutor   Aug 2021 - May 2023
- Provided tutoring in AI, machine learning, and data analysis courses, focusing on Python-based implementations.
- Assisted students in developing ML models and conducting data analysis projects, enhancing their practical understanding.

Engineering and Computer Science Dean's Office   **Sacramento, CA**
Student Assistant   Nov 2022 - May 2023
- Provided specialized technical support to faculty and staff, focusing on AI and data analysis projects.
- Developed and maintained machine learning models to analyze departmental data and improve decision-making processes.
- Upgraded the departmental website with AI-powered features, enhancing user experience and functionality.

Education

California State University, Sacramento   **Sacramento, CA**
B.S in Computer Science, Minor Mathematics   *GPA: 3.6/4.0, Dean's List*
Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Object-Oriented Computer Graphics, Statistics & Applications, Operating system principles, Artificial Intelligence, Business and Computer Ethics

Projects

AI-Powered Event Recommendation System   May 2022 - Aug 2022
- Designed and implemented an AI-driven event recommendation system using collaborative filtering and content based algorithms.
- Utilized Python, TensorFlow, and AWS SageMaker for model training and deployment.

Sentiment Analysis Tool for Education Feedback   Jan 2022 - Apr 2022
- Developed a sentiment analysis tool to analyze student feedback on courses using NLTK and SpaCy.
- Implemented a web interface using React.js for visualizing sentiment trends and insights.

Predictive Ticketing System   Aug 2022 - May 2023
- Created an ML-based ticketing system that predicts ticket resolution times and assigns tickets to appropriate teams.
- Employed Python, scikit-learn, and AWS for model development and deployment.