JAMES TA

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EDUCATION

San Jose State University Aug. 2024 - Current
M.S. Software Engineering, Specialization in Data Science

University of California, Riverside June 2023
B.S. Computer Science with Business Application

De Anza College Mar. 2021
A.S. Computer Science

EMPLOYMENT

theCoderSchool, *Code Coach*, Los Gatos, CA Aug. 2024 - Current
• Mentored students aged 8-16 in coding concepts with 90% of students demonstrating improved coding abilities within their first month.
• Designed and delivered over 50+ coding lessons utilizing Scratch, Python, and JavaScript, resulting in 80% of students advancing to higher coding proficiency levels.
• Guided small groups of 3-5 students in game and app development projects, leading to a successful completion of 10+ team-based coding projects showcased to parents and peers.

GV Concepts, Inc, *Software Engineer Intern*, San Jose, CA Feb. 2024 - May 2024
• Developed a Python-based service utilizing RESTful APIs to download and synchronize vital data from Doctorgram with Electronic Medical Records system.
• Integrated real-time patient updates from the Electronic Medical Records system into Doctorgram's database, ensuring seamless information flow between platforms.
• Leveraged Git version control to meticulously manage the codebase, facilitating seamless collaboration and version tracking throughout the development cycle.

Appen, *QA Engineer Intern*, Sunnyvale, CA June 2022 - Sept. 2022
• Implemented an automation framework using Python and Selenium, reducing manual testing time by 30% by analyzing test execution logs for high-traffic web pages with Multi-Factor Authentication.
• Handled feature testing from the CI/CD pipeline, identifying and fixing 5 weekly defects logged in Jira, leading to a 20% improvement in code quality measured via SonarQube analysis.
• Reproduced and debugged client-reported issues on 3 critical landing pages before deployment, leveraging root cause analysis to reduce post-release defects by 25%, as tracked through production reports.
• Delivered actionable feedback on code quality using static analysis reports, enhancing team efficiency by 10% through streamlined review processes with a 15-member development team.
• Collaborated with program and product managers to refine software requirements, increasing testability and product quality by 15%, as assessed by improved QA acceptance rates.
• Participated in daily stand-ups and sprint planning meetings, improving collaboration and reducing misunderstandings by 15%, supported by retrospective feedback and sprint metrics.

SKILLS

Languages: Python, SQL, C++, JavaScript, HTML, CSS
Data Science Tools: NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn
Developer Tools: Git, Linux/Unix, Selenium, Docker
Web Development: React.js, Node.js
Relevant Courses: Data Mining, Artificial Intelligence, Machine Learning, Database Systems, Software Systems Engineering, Data Structures and Algorithms, Operating Systems

PROJECTS

California Birth Rate Analysis and Socioeconomic Factors Exploration (Python, Pandas, NumPy, Matplotlib, Seaborn) Nov. 2024
• Merged 8+ datasets (e.g., housing prices, healthcare costs) to analyze socioeconomic factors impacting California birth rates.
• Enhanced data quality by 20% through preprocessing and normalization of 10,000+ data points.
• Identified patterns between educational attainment and birth rates via Exploratory Data Analysis techniques, leading to actionable insights.

Heart Anomaly Detection (Python, Scikit-learn, Pandas, NumPy) Nov. 2024
• Utilized a Random Forest Classifier from Scikit-learn on 1000+ health records, achieving 88% prediction accuracy for heart anomalies.
• Highlighted key predictors like chest pain type, aiding in early detection and intervention strategies.

Restaurant Finder (React.js, Node.js, MongoDB, Google Maps API) Nov. 2024
• Developed and deployed a restaurant search application using React, Node.js, and MongoDB, achieving a 30% API response improvement.
• Integrated location-based search with Google Maps API, enabling seamless and accurate data retrieval.

8-Puzzle Solver (Python) Aug. 2024
• Implemented A* algorithm in Python, reducing solution lengths by 30% compared to breadth-first search.
• Optimized efficiency by integrating heuristic-based Manhattan and Euclidean distances, minimizing the search space exploration.

Using Clean Restrooms (MongoDB, Express.js, React, Node.js) Dec. 2023
• Developed a MERN-stack web application for 200+ users to locate clean restrooms, achieving 99% uptime.
• Managed real-time restroom ratings with a scalable MongoDB backend.