James Ta

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EDUCATION

San Jose State University — San Jose, CA
Masters of Science in Software Engineering, Specialization in Data Science — *Aug 2024 – Present*

University of California, Riverside — Riverside, CA
Bachelors of Science in Computer Science with Business Applications — *June 2023*

EXPERIENCE

Software Engineer Intern — May 2025 – Aug 2025
Tesla — *Fremont, CA*
- Designed and deployed an **OCR pipeline** using open-source frameworks and **OpenVINO** optimization, improving text extraction accuracy and runtime efficiency on diverse document images.
- Built a **text classification system** integrating **ML models** with an **LLM-based fallback**, enhancing prediction reliability for industrial part data.
- Automated end-to-end UI/API testing using **Java**, **Cucumber**, and **Selenium**, boosting regression coverage and reducing manual QA workload.

Code Coach — Aug 2024 – Mar 2025
theCoderSchool — *Los Gatos, CA*
- Mentored students in **Python**, **JavaScript**, and other languages, guiding teams to complete and present multiple coding projects.
- Encouraged project-based learning by introducing problem-solving and debugging strategies tailored to each student's skill level.

Software Engineer Intern — Feb 2024 – May 2024
GV Concepts, Inc. — *San Jose, CA*
- Developed a data synchronization service between clinical platforms, ensuring reliable and timely updates across distributed systems.
- Worked with large-scale **Electronic Medical Record** datasets to perform **data validation, cleaning, and transformation**, ensuring HIPAA-compliant data integrity across systems.

QA Engineer Intern — Jun 2022 – Sep 2022
Appen — *Sunnyvale, CA*
- Created an automation framework with **Python** and **Selenium**, improving test execution speed on MFA-secured applications.
- Collaborated with developers to identify and resolve critical pre-release defects, improving release stability and deployment confidence.

PROJECTS

AlgoTimer — Oct 2025
- Built a Streamlit web app that integrates a Pomodoro timer with the Blind 75 LeetCode set to support structured and trackable interview preparation.
- Used SentenceTransformer embeddings to provide AI-based feedback and next-problem recommendations, enabling personalized and consistent study sessions.

Diabetes Prediction Using a Tuned Neural Network — May 2025
- Designed and trained a neural network to predict diabetes likelihood from patient data, incorporating normalization, dropout, and cross-validation to enhance model robustness.
- Performed hyperparameter tuning on learning rate, batch size, and dropout ratio to reduce overfitting and improve test accuracy across validation folds.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, SQL, HTML, CSS
Data Science & ML: PyTorch, Scikit-learn, Transformers, Feature Engineering, Model Evaluation
Frameworks & Tools: Flask, Node.js, React, MongoDB, REST APIs, Docker, AWS, Git