Jacob P. T. Nguyen

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EDUCATION

University of California, Davis   **Davis, CA**

B.S. in Computer Science, Minor in Statistics   *Expected Graduation, Jun 2026*

- GPA: 3.69 | Dean's Honors List
- Relevant Coursework: Machine Learning, Artificial Intelligence, Data Structures and Algorithms, Object-Oriented Programming, Database Systems, Algorithm Design and Analysis, Machine-Dependent Programming, Computer Architecture

PROJECTS

ML Model Manager   **Davis, CA**

Project Creator   *Dec 2025*

- Engineered an end-to-end MLOps platform supporting Logistic Regression, Random Forest, and XGBoost models with automated hyperparameter tuning via GridSearchCV, enabling non-technical users to train and deploy classification models from CSV datasets.
- Built a scalable FastAPI REST API with SQLAlchemy ORM and Pydantic validation, implementing pickle-based model persistence and real-time prediction endpoints to serve trained models.
- Deployed a production-ready full-stack application using Docker containerization and environment variable management, hosting the React/TypeScript frontend on Vercel and Python backend on Render.

Medical Appointments No-Show Predictor   **Davis, CA**

Project Creator   *Nov 2025*

- Engineered end-to-end ML pipeline on 110,527+ medical records, training Random Forest, XGBoost, and Logistic Regression with SMOTE and GridSearchCV. Achieved 80.3% recall and ROC-AUC 0.7313 through feature engineering and hyperparameter tuning.
- Developed FastAPI REST API backend with Pydantic validation, pickle-based model serving, and error handling for real-time predictions.
- Deployed production-ready application on Vercel (React/TypeScript frontend) and Render (backend) with Docker containerization and environment variable management.

Rate My Stuff   **Davis, CA**

Project Creator   *Jan 2025*

- Developed a full-stack web application using React.js, TypeScript, Node.js, Express.js, and MongoDB to enable seamless user interactions and data management.
- Implemented CRUD functionality, allowing users to efficiently create, view, edit, and delete reviews.

SKILLS

Languages: Python, JavaScript, TypeScript, HTML, CSS
Frontend: React.js, TypeScript, Vite, Axios | Backend: FastAPI, Node.js, Express.js, SQLAlchemy, Pydantic
Databases: PostgreSQL, MongoDB | ML/Data Science: scikit-learn, XGBoost, pandas, GridSearchCV, SMOTE, Matplotlib
DevOps: Docker, Vercel, Render, Git