

# Jacob P. T. Nguyen

Salinas, CA | (831) 905-7478 | jacobptnguyen@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## EDUCATION

<b>University of California, Davis</b> <i>B.S. in Computer Science, Minor in Statistics</i>	<b>Davis, CA</b> <i>Expected Graduation, Jun 2026</i>
<ul style="list-style-type: none"><li>• GPA: 3.69   Dean's Honors List</li><li>• Relevant Coursework: Machine Learning, Artificial Intelligence, Data Structures and Algorithms, Object-Oriented Programming, Database Systems, Algorithm Design and Analysis, Machine-Dependent Programming, Computer Architecture</li></ul>	

## PROJECTS

<b>RepoResume.ai</b> <i>Project Creator</i>	<b>Davis, CA</b> <i>Jan 2026</i>
<ul style="list-style-type: none"><li>• Built full-stack AI-powered resume generator (React 18, TypeScript, Supabase, PostgreSQL) integrating GitHub OAuth to analyze up to 100 repositories and generate tailored resumes/cover letters using OpenAI GPT-4o.</li><li>• Deployed production application on Vercel with PDF generation (jsPDF, html2canvas), intelligent project matching algorithm, and rate limiting (10 generations/month).</li></ul>	

<b>ML Model Manager</b> <i>Project Creator</i>	<b>Davis, CA</b> <i>Dec 2025</i>
<ul style="list-style-type: none"><li>• Engineered MLOps platform supporting Logistic Regression, Random Forest, and XGBoost with automated hyperparameter tuning via GridSearchCV, enabling non-technical users to train and deploy classification models from CSV datasets.</li><li>• Built scalable FastAPI REST API with SQLAlchemy ORM, Pydantic validation, and pickle-based model persistence; deployed full-stack on Docker with React frontend (Vercel) and Python backend (Render).</li></ul>	

<b>Medical Appointments No-Show Predictor</b> <i>Project Creator</i>	<b>Davis, CA</b> <i>Nov 2025</i>
<ul style="list-style-type: none"><li>• Engineered end-to-end ML pipeline on 110,527+ medical records, achieving 80.3% recall and ROC-AUC 0.7313 through Random Forest/XGBoost with SMOTE and GridSearchCV feature engineering.</li><li>• Deployed production-ready application on Vercel (React/TypeScript frontend) and Render (FastAPI backend) with Docker containerization and real-time prediction endpoints.</li></ul>	

## SKILLS

**Languages:** Python, JavaScript, TypeScript, HTML, CSS

**Frontend:** React 18, Vite, Tailwind CSS, Axios

**Backend:** FastAPI, Node.js/Express.js, SQLAlchemy, Pydantic

**Databases:** PostgreSQL, MongoDB

**ML/Data Science:** scikit-learn, XGBoost, pandas, GridSearchCV, SMOTE

**DevOps/Deployment:** Docker, Vercel, Render, Git, GitHub OAuth