

COMPUTER SCIENCE: MACHINE LEARNING student at BYU

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Brigham Young University

Provo, UT

QuoteDeck - Provo, Utah

Built and scaled a SaaS product from prototype to production, now used by multiple paying small business clients.

- Architected and shipped a production-grade SaaS platform enabling real-time price estimation for service businesses through an embeddable React.js widget integrated into client websites
- Built and maintained a FastAPI backend with Supabase PostgreSQL, implementing secure data models, authentication flows, and pricing logic APIs
- Engineered end-to-end integrations with third-party services including SendGrid (automated email), Twilio/NotificationAPI (SMS notifications), the ChatGPT api (LLM integration and smart conversation flow) and Google Ads (conversion tracking)
- Deployed backend services on Render and frontend interfaces on Vercel, with CI/CD pipelines and version control through Git & Github Actions
- Applied modern development practices including containerization, type-safe API contracts, and monitoring/alerting for reliability in production environments

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- **QuoteDeck**: Full-stack SaaS (React + FastAPI + Supabase) enabling SMBs to generate instant price estimates and collect qualified sales leads through an embeddable widget & online CRM portal; adopted by multiple paying small businesses. (www.myquotedeck.com)
 - **BetterPlates**: iOS app written in Swift using AI to import and modify recipes based on user health goals; 100+ downloads on the App Store. ([BetterPlates on App Store](#))
 - **Chess**: Implemented a complete chess platform with GUI and server-client architecture; demonstrated mastery of object-oriented design principles and clean code practices.
 - **Forecasting**: Built and validated forecasting models (Prophet + XGBoost) using several years of real sales data; experience in data cleaning, feature engineering, and applied machine learning. Built UX and deployed on Streamlit to maximize usability by non-technical staff. Increased future sales forecasting accuracy by >50%, reducing ingredient waste and increasing profits

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- JavaScript, Python, Java, C++, C, SQL, HTML5, CSS3
 - React.js, Node.js, Express.js, FastAPI, Flask
 - PostgreSQL (Supabase), MySQL, MongoDB, Firebase, AWS (EC2, S3, Lambda)
 - Git/GitHub, Docker, Render, Vite, CI/CD pipelines, REST API design, Google Ads/Tag Manager integration
 - AI-assisted development (prompt engineering, Cursor, Copilot), time-series forecasting (Prophet, XGBoost), natural language processing (scikit-learn, transformers), data visualization (Chart.js, Matplotlib, Pandas), LLM integration (ChatGPT API)
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The Church of Jesus Christ of Latter-Day Saints

Rio de Janeiro, Brazil

- Self taught the Portuguese language and was able to converse fluently in Brazilian Portuguese
- Performed data analysis on volunteer performance for 200+ volunteers
- Conducted individual and group trainings for volunteers
- Served as a volunteer leader, directly responsible for ensuring performance of 200+ volunteers