Your name

Machine Learning Engineer

youremail@gmail.com | github.com/jkru3 | https://example.com

EDUCATION

Your school December 2024

B.S. Computer Science, Minor in Business Your gpa

4x Deans list, Algorithmic Trading Club, Salsa Club

EXPERIENCE

Tech Company, Software Engineering Intern Summer 2023 | Location, USA

- Contributed to a team to enhance a diagnostic and prescription tool used by numerous hospitals
- Migrated from an outdated version of a front-end framework to work with a modern backend
- Developed a CI/CD pipeline for automated testing and deployment
- Implemented auto-completion and code lookup support for a large set of medical care guideline codes
- Utilized agile project management principles in cross-team sprint planning sessions with project management tools

Tech Initiative, Co-founder August 2023 — Present | Location

- Co-founded a student-run non-profit developing a cross-functional, open-source **Next.js** application with integrated machine learning models deployed through a cloud service provider
- Deployed a throttled, high availability **RESTful API** supporting over **3000 users** during a critical usage period, incorporating predictive analytics to enhance user experience
- Engineered an NLP pipeline using **GPT-4** to analyze textual data, extracting key insights and generating quantitative metrics across multiple dimensions with full automation, improving decision-making processes
- Designed a geospatial data system for metrics, data analysis, and boundaries in a NoSQL database for localized information, utilizing machine learning algorithms for predictive modeling and trend analysis

PROJECTS

Financial Portfolio Rebalancer, Full Stack Application April 2024 — Present

- *Auto Trader*: Developed a **C++** Technical Analysis app optimized for market-wide dividends. Backtests on historical market data for **sub-5-second stock speculations** and an EMA algorithm to compare against time series prediction models
- *Time Series Forecast*: Designing a **Kubernetes** cluster integrated with **Prometheus** and **Grafana** to ingest preprocessed stock data and train regression models (with **PyTorch**) for stock price time series forecasting

project name, Research project under prof. John Doe January 2023 — March 2023

- Developed a multi-model pipeline that outperformed baseline models on a commonsense reasoning benchmark through prompt engineering
- Optimized model performance with similarity matching and token generation, without the need for fine-tuning

SKILLS

Model Development:	PyTorch, TensorFlow, Supervised Machine Learning, Hyperparameter optimization
Data Science:	Web Scraping (Puppeteer, Selenium), NumPy, Pandas, Matplotlib, Desmos
DevOps:	Kubernetes, Docker, CI/CD (Azure), Shell scripting (PowerShell, Bash), IaC (CloudFormation)
NLP:	Auto-regressive and Sequence-to-sequence transformers, Large Language Models (LLMs)
Languages:	Java, C++, C#, TypeScript, Python, Dart, C, R
Cloud Infrastructure:	AWS (CDK, Lambda, DynamoDB, EC2, S3, RDB, Amplify), Google Cloud Platform, Azure
Database Systems:	ER Modeling, Relational Databases (SQLite, MySQL), NoSQL (DynamoDB)