

Matthew Young

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SUMMARY

Dynamic Full-Stack Software Engineer Intern with expertise in building scalable back-end systems using Node.js, Django, and FastAPI, managing relational and NoSQL databases including PostgreSQL, MongoDB, and vector databases. Proficient in developing intuitive web and mobile interfaces with React.js and React Native. Skilled in Python, JavaScript, and TypeScript, with experience in data visualization, machine learning solutions, and advanced AI frameworks such as RAG, LLMs, and LangChain.

EXPERIENCE

Backend Software Engineer Intern

MiniMe AI

April 2024 - December 2024, Palo Alto, CA

- Developed a Retrieval-Augmented Generation (RAG) system to enhance product functionality by integrating LLMs with custom knowledge bases.
- Automated data preprocessing for an AI chatbot by building a pipeline for crawling, cleaning, and transcription, boosting RAG data quality.
- Improved development efficiency by 50% through modular Python packages, enhancing reusability and streamlining workflows.

Full Stack Software Engineer Intern

Networky.ai

October 2023 - April 2024, Menlo Park, CA

- Engineered a highly responsive and intuitive mobile site tailored for seamless networking on the go, resulting in a 20% increase in contact growth.
- Developed a bespoke product metrics dashboard utilizing SQL querying, delivering actionable marketing insights and driving user acquisition up 15%.
- Thoroughly documented the development lifecycle, architectural nuances, code structure, and deployment protocols to facilitate knowledge sharing.

PROJECTS

Forge Fitness (Mobile App)

gitlab.com/forge-fitness • October 2023 - Present

- Leading a small team designing and developing a mobile-first fitness accountability app that helps people reach their fitness goals.
- Designed data model architecture for a MongoDB database for improved API response times up to 100ms.
- Integrated a RESTful API using Node.js with a React Native front end to ensure proper data flow and delivery.

AI Clone chatbot

matthewyoung.info • January 2025 - March 2025

- Developed a chatbot clone using Retrieval-Augmented Generation (RAG), LangChain, and LLMs for dynamic content generation.
- Improved similarity search results with an intelligent query response system powered by semantic chunking for pgvector vector store.
- Engineered a responsive front-end with Next.js and TypeScript, ensuring a smooth and intuitive user experience for chatbot interactions.

Paper Stonks

gitlab.com/apex-legends1/paper-stonks • October 2022 - November 2022

- Developed a mock stock trading app with real-time stock price data and portfolio simulation, leveraging React.js and Chart.js for interactive visualizations.
- Created a secure and scalable REST API with FastAPI to enable seamless access to stock data and facilitate portfolio management features.
- Led a 5-member team in implementing Docker-based microservices, CI/CD automation, and ensuring efficient deployment and scalability.

EDUCATION

Software Engineering

HackReactor • San Francisco, CA • 2022

- Selected to lead final capstone project of 5 team members.

Bachelors Degree in Economics

University of Washington • Seattle, WA • 2019

- 7 time Dean's List recognition of academic excellence.

SKILLS

Industry Knowledge: Agile Methodologies, Software Engineering, Algorithms, Unit Testing, Object-Oriented Programming, Data Analysis, Data Science

Personal: Teamwork, Communication, Problem solving, Adaptability, Quick Learning, Leadership

Technical: JavaScript, Python, Django, Fast API, Docker, React.js, React Native, Node.js, Express.js, PostgreSQL, MongoDB, HTML, CSS, Git, CI/CD, Streamlit, Typescript, LLMs, LangChain, OpenAI, Tailwind CSS, pgvector