

VARUN KIRAGI

+1 (408) 507-7026 | varunkiragi@icloud.com | linkedin.com/in/vkiragi/ | varun-kiragi.netlify.app/

EDUCATION

Georgia Institute of Technology
Master's, Computer Science

January 2025 - April 2027

University of California - Davis
Bachelor's, Computer Science

September 2019 - June 2023

PROFESSIONAL EXPERIENCE

The Honey Jar

Software Engineer Intern

September 2024 - November 2024

- Led the development of a Coin Flip game dApp on Berachain, integrating smart contract interactions with a Next.js frontend and Tailwind CSS, providing users with an interactive and pleasing experience.
- Optimized smart contracts for NFT projects, improving gas efficiency by 15% and increasing user interactions by 20% through enhanced dApp features and seamless blockchain integration.
- Worked with and debugged an indexer for tracking blockchain transactions, enhancing data retrieval and analysis capabilities for blockchain-based activities, resulting in improved user engagement and quest completion monitoring.

TeamcalAI

Software Engineer Intern

May 2024 - August 2024

- As the sole developer on this team, I engineered a cutting-edge voice assistant bot using React Native's Speech Recognition API and custom algorithms, enabling users to manage schedules via voice commands, resulting in overwhelmingly positive feedback on app accessibility.
- Spearheaded bug-fixing initiatives, significantly reducing app crashes and improving overall stability.
- Implemented robust error handling and monitoring practices, resulting in enhanced application performance and user experience.
- Conducted regular code reviews, refactored legacy components, and introduced a comprehensive testing strategy, substantially enhancing code quality and minimizing regression bugs across multiple app releases.

MyAIChef

Software Engineer Intern

June 2023 - March 2024

- Optimized web scraping algorithms in Python using pandas and BeautifulSoup, achieving a 20% reduction in execution time, leading to streamlined data acquisition processes, facilitating more efficient data updates and improving system performance.
- Revamped the app's interface, done in TypeScript and React Native, enabling smooth navigation, and incorporating user friendly input features, resulting in an increase in user satisfaction.
- Successfully implemented data handling improvements, leading to a reduction in execution time, which significantly boosted system performance and overall user engagement.

PROJECTS & OUTSIDE EXPERIENCE

MailFind

- Engineered a full-stack Natural Language Understanding (NLU) search engine, leveraging GPT-5 nano to deconstruct conversational queries (e.g., "Find the PDF from Bob last September") into structured JSON, enabling a multi-stage hybrid search combining Supabase filters and pgvector similarity for high-precision results.
- Architected a secure and scalable backend using Python (FastAPI), featuring a complete Google OAuth2 flow with encrypted token storage (Fernet) and an asynchronous email indexing pipeline that uses sentence-transformers for efficient, local vector embedding generation.
- Developed a polished Chrome Extension frontend with React & TypeScript, injecting a dynamic UI directly into the Gmail DOM and implementing real-time, streaming AI responses to eliminate perceived latency and create a seamless, integrated user experience.

Stock Screener & Valuation Tool

- Built an interactive web app using Python and yfinance API to fetch real-time stock data and display key financial metrics and price charts.
- Implemented a 2-stage Discounted Cash Flow (DCF) model with customizable inputs for growth and discount rates.
- Added a dynamic sensitivity analysis chart to visualize valuation shifts based on different user assumptions.

Stock Sentiment Analyzer

- Simulated a real-time NLP pipeline for 10,000+ financial tweets/min using Spark Structured Streaming and VADER sentiment analysis.
- Extracted \$TICKER symbols with >98% accuracy and aggregated sentiment scores in 5-min sliding windows with <2s latency.
- Designed for scalability and integration with dashboards, live Twitter feeds, and trading alert systems.

SKILLS

Languages and Skills: TypeScript, JavaScript, Java, Python, HTML, CSS, SQL

Frameworks and Tools: Next.js, React.js, Node.js, Pytorch, Tensorflow, pandas, NumPy, scikit, Tailwind CSS