Jack Luo

jack@jack-luo.com | (650) 680-6800 | linkedin.com/in/thejackluo | jack-luo.com | github.com/thejackluo

EDUCATION

University of California - Santa Barbara   September 2022 - Present
B.S. Computer Science | College of Engineering Honors | Cumulative GPA: 3.97 | 3x Dean's Honors | Expected Graduation: 2026
 • **Relevant Coursework**: Advanced Data Structures, Machine Learning, C programming, Probability Theory, Logic Design

Massachusetts Institute of Technology (MIT)   September 2023 - June 2024
Special Student (Unofficial) - Audited Courses
 • **Relevant Coursework**: Designing Virtual Worlds, Natural Language Processing, Introduction to Robotics, Robotics Manipulation

SKILLS

Full-stack: JavaScript, TypeScript, HTML/CSS, Next.js, React.js, Node.js, Express.js, PostgreSQL, MongoDB, AWS, SQL, Java
AI&ML: Python, R, LangChain, Pinecone, Hugging Face, TensorFlow, PyTorch, OpenCV, C++, scikit-learn, Pandas, NumPy
Tools: Git, Unix, GitHub, ClickUp, Miro, Notion, Jest, LaTeX, Figma, Jupyter Notebooks, R Studios, Linux

WORK EXPERIENCE

LEAD DEVELOPER @ StockM2   February 2024 - Present
 • Automated Stock Model V2 from spreadsheet to Python system, scaling analysis from manual to comprehensive evaluation of 1,000+ stocks
 • Implemented 5 advanced models in backtesting environment, optimizing parameters and achieving 18% simulated return over 1.5 years
 • Engineered data pipeline using Pandas, integrated QuickFS and AlphaVantage APIs to standardize 3 time-series financial data (daily to quarterly)
 • Secured $3K in computing resources and BU partnership, implementing advanced back-testing software to enhance trading strategy evaluation

TECHNICAL COFOUNDER @ Mira   April 2023 - Present
 • Led development of project management suite, integrating gamification and productivity; laying groundwork for AI-driven task prioritization
 • Designed gamification system using economic utility theory and XP modeling; validated concept through discussions with 20+ potential users
 • Created AI-powered distraction blocker, utilizing generative AI to analyze web page metadata and content, enabling selective access to
educational material on platforms like YouTube

FRONTEND INTERN @ Gradder   June 2020 - August 2020
 • Facilitated design of school management system adopted by 200+ Eastern European schools; brainstormed and assisted with user testing
 • Co-ordinated team that won Diamond Entrepreneurship Challenge in Ukraine; advocated for simplified UI/UX in student accessibility
 • Worked with QA processes and Git commit practices, gaining insight into maintaining code quality and version control

PROJECTS

VIFY.ai   Python, Flask, LangChain, DynamoDB, Hume.ai, AWS, and Hugging Face
 • Developed sophisticated scam detection system using Python, Flask, and LangChain, analyzing text communications for fraud indicators;
 • Pioneered real-time fine-tuning and emotion detection using Hugging Face and Hume.ai, enhancing model to emerging scam tactics
 • Won TOP 15 in Berkeley AI hackathon startup, invited by Berkeley SkyDeck for the incubator program

LINGUA SCAN   Artificial Intelligence (AI), Flutter, Firebase, Deep Learning, Dart, OpenCV
 • Collaborated on vision-based translator app, enabling real-time object recognition and language translation for immersive language learning
 • Implemented OpenCV for computer vision tasks, integrating with custom ML models to identify objects and provide translations in 2 languages;
 • Enhanced UX with interactive learning features, allowing users to upload pictures from travels and track them into personalized study lists

CALEND.ai   Chrome Extension, OpenAI, HTML, CSS, TailwindCSS
 • Engineered Chrome extension for automated calendar management, leveraging natural language processing to generate events from text input
 • Integrated Google Calendar API for seamless event creation, updates, and deletions, streamlined scheduling processes
 • Devised backend systems to handle complex scheduling logic, including daily schedule creation and email-based event generation

AWARDS & CERTIFICATIONS

Top 15 - Berkeley AI Hackathon (2024), **First Place Social Good Award** - Digitized Hackathon (2022), **First Place Award** - Code Day (2022),
Honorable Mention - OpenHacks (2022), **AIME Qualifier** - Mathematical Association of America (2021), **Top 15% Graduate** - Buildspace
(2023), **Selected from Top 20%** - HackMIT (2023), **Selected from Top 7%** - TreeHacks, Stanford University (2024)

Prompt Engineering - DeepLearning.AI (2024), **Deep Learning Specialization** - Coursera (2023), **ClickUp Project Management** - ClickUp
(2023), **Advanced Data Structures** - Stepik (2023), **MERN Stack, Full Stack React Redux Node.js** - Udemy (2021)