Ivan Yeung

(669) 309 2768 • www.ivanyeung.dev • www.linkedin.com/in/theivanyeung • theivanyeung@gmail.com •
github.com/theivanyeung

SKILLS

- Specialization: Full-Stack Development, Competitive Programming, LLMs, Vector Storage, Transfer Learning
- Proficiencies: Javascript/TypeScript (Next.js/SSR, React.js, Node.js/Express, Redux), Python (PyTorch, TensorFlow, Pygame), Swift, HTML/CSS/SCSS/Chakra UI/Material UI, C++, Java, Bash/Shell
- Tools/Misc: OpenAI API, Firebase, Google Cloud Platform, Stripe, Electron, Open-Source LLMs, LangChain, Pinecone, Algolia, Agora, ChakraJS, Keras, Cohere, Git, MongoDB, Mongoose, Heroku, Flask

RELEVANT EXPERIENCE, PROJECTS & PROFESSIONAL DEVELOPMENT

Founder & Developer - Prodicity   *Independent, CA | Aug 2022 - Jan 2023*
- Led a team of 10, delegated tasks, and managed project timelines to develop a live-streaming platform.
- Attracted 5,563 users in the first three months and coded 50,677 lines using Next.js, Firebase, and Node.js.
- Enhanced back-end performance for high concurrency and low latency, improving user experience during peak usage.
- Implemented an efficient event-driven architecture using Firebase Cloud Functions for real-time updates and user notifications.

Founder & Developer - DreamMate   *Independent, CA | Jan 2023 - Apr 2023*
- Engineered a social networking platform, securing 764 users within its first month using Next.js, Firebase, Node.js, Stripe, and Algolia.
- Achieved real-time posts, user profiles, direct messaging, and personalized content feeds, and wrote 46,400 lines of code in 2 months.
- Deployed serverless functions on Firebase to handle back-end logic and integrated Stripe for payment processing.

Berkeley AI Hackathon – Ember AI   *Berkeley, CA | Jun 2023*
- Led a team of 4 to develop an AI service that detects early health symptoms and anomalies, expediting patient referrals to specialists by utilizing a GPT-4 model fine-tuned using the MIMIC-III dataset and Pinecone's vector storage system for LTSM memory to build the AI service on top of LangChain's LLM framework.
- Initiated planning, managed operations, and assisted mainly with developing the fine-tuned GPT model and vector storage system.

USACO Gold Division   *Independent, CA Mar 2023*
- Competed in a prestigious national coding contest and successfully achieved Gold Division demonstrated strong-problem-solving and programming skills in C++ and Python3.
- Utilized advanced algorithms including breadth-first search, depth-first search, Dijkstra's algorithm, prefix tree, and data structures to efficiently solve complex computational problems under time constraints.

Cal Hacks - Mindful AI   *San Francisco, CA | Sep 2022*
- Collaborated in a team of 4 to develop an AI service detecting microaggressions in messages, improving model accuracy to 98% using Cohere's NLP models, Python, and Keras for model training and integration.
- Enhanced model performance with hyperparameter optimization and custom training datasets.

Co-Founder - HexaHacks   *Cupertino, CA | Nov 2019 - Mar 2020*
- Co-organized a successful hackathon for high school students, attracting 200 participants and raising $2,000 in funds.

EDUCATION

UC San Diego - Dean's Honors   GPA 3.93
- Relevant Coursework: Data Structures, Advance C++, Multivariable Calculus, Linear Algebra, Physics 1-3, Discrete Mathematics, Differential Equations, Probability

CERTIFICATIONS

- DeepLearning.AI - Deep Learning Specialization (Coursera) [Convolutional neural networks, sequence models, hyperparameter tuning, regularization, optimization, machine learning]

ADDITIONAL

- Hackathons: TreeHacks (Stanford University), Berkeley AI Hackathon (UC Berkeley), CalHacks (UC Berkeley)