Alan Li

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Education

Evergreen Valley High School   San Jose, CA

Unweighted GPA: 4.0/4.0
SAT Score: 1540/1600
Relevant Coursework: APCSP/A, AP Physics 1/2/C, AP Calculus AB/BC
Leadership: Internet Entrepreneurship Club (co-founded)

Experience

ezML: Co-Founder and CTO   Jan 2021 - Present

- Co-founded an AI-as-a-Service platform that allows users to utilize machine learning in their own applications and build industry-standard ML models without prior knowledge
- Grew company from business competition idea through an entrepreneurship incubator
- Launched top 5 globally on Product Hunt, gaining 160+ users and 11+ custom clients
- Developed a proprietary GPU-accelerated serverless compute engine to power scalable ML inference

iStart Valley: Intern   Jan 2021 - May 2021

- Worked with a team through research, business planning, and MVP implementation; won 1st place in national pitch competition and placed as a Finalist in the Global Startup Pitch Battle
- Secured ~$5.5k in initial funding for further development of our startup ezML through pitch competitions

Alan AI: Voice Developer Intern   June 2021

- Developed an online multiplayer chess game (Chess Enabled) and integrated voice functionality with Alan AI's SDK to improve accessibility
- Learned and implemented concurrency, websockets, database normalization, data integrity, cloud deployment services, and frontend design through hands-on experience

Extracurriculars, Activities, and Projects

2022 Synopsys Championship → PolicyTool
- Won the 2nd award in the Physical Science and Engineering Category of the Santa Clara county fair
- Built a web scraper with Twitter's API to obtain Tweets
- Developed ML model to predict country happiness levels from Twitter data, achieving equal accuracy to the methodology used by the annual World Happiness Report
- Deployed the model in an application for policy makers to view country happiness levels and check relevant Tweets, all in real-time, with an in-house data ingestion pipeline under the hood

A4 Machine Learning Bootcamps (Intro to ML & AI, Intro to DL, Real World ML, and CNNs): Developed and implemented neural network models (MLP, CNN, and RNN) for various ML projects with Keras/Tensorflow.

2021 EVHS Programming Club Coding Competition, tied for first place

AutumnnHacks (Won "Best Mobile App") → **QuickVote**: Worked with a team of 4 to create a digitized voting platform that runs on a blockchain to combat voter fraud.

USA Computing Olympiad, Silver Division
- Currently in the Silver division with a 700/1000 score in the 2021 Feb Silver contests, and training for Gold level (~top 5-10% in the U.S).
- Solved algorithmic challenges using (Prefix Sums, Graph Search Algorithms, Binary Search, etc.) in C++ and Java

Worm Code Generator: An active code generator/DSL (Domain Specific Language) that generates code for the Phoenix framework, a framework for building backend applications that run on Elixir.
- Eliminates boilerplate code by generating database schemas and server routes with a powerful syntax
- Serves my co-founded startup, ezML, by speeding up development time and promoting efficient, clean code

Fern Programming Language: A general purpose, highly performant, functional programming language transpiled to C.
- Provides a persistent interface to data structures with destructive updates
- Bridges the developer experience of functional programming languages with the performance of imperative ones
- Much faster than other functional programming languages like Haskell or Elixir (up to ~20x speedup)

Hoo Hacks (Hackathon) ➔ **Edge**: Worked with a team of 4 and built a high-throughput P2P secure edge computing network that allows containerized remote execution of code in a computational pool. Client side interactions are done with a Python CLI, along with raw network sockets for P2P and FTP, and a load balancer built in Nest.js.

Skills and Interests

Programming Languages:
- Proficient in Python, C/C++, Java, HTML/CSS/JS, PHP, Node.js, Haskell, Elixir, and SQL
- Familiar with Shell Scripting (Bash), Perl (Raku), and Lisp (Racket)

Databases: Proficient in MySQL, MariaDB, PostgreSQL, MongoDB, and Redis

Machine Learning and Data Science:
- Proficient in Keras, Scikit-Learn, NumPy, Pandas, and Matplotlib
- Familiar with TensorFlow, XGBoost, NLTK, and Darknet
- Actively learning Torch

Other Tools and Frameworks:
- Operating Systems: Proficient in Linux (Ubuntu, Debian, Fedora, Gentoo); Actively learning FreeBSD
- Editors/Text Manipulation: Proficient in Vi/Vim; Familiar with Sed, Awk, and other coreutils
- Developer Tools: Proficient in Git; Familiar with Docker and Nix
- Frameworks: Proficient in Vue.js, Nuxt.js, Flask, Phoenix (Elixir)
- Other tools: Proficient in Socket.io, RabbitMQ, and Grafana; Familiar with Prometheus and Varnish
- Cloud Platforms/Services: Proficient in Amazon Web Services (EC2, S3, Lambda, CloudFront)

Interests: Functional Programming, Entrepreneurship, Data Science, Distributed Systems, Cryptocurrencies/ Blockchain, Saxophone, Swimming, Investing