

## SUMMARY

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A self-motivated, highly responsible high school student who has put in over 5,000 hours into his passion, programming, and is looking for an opportunity to contribute to a team's product development cycle.

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## SKILLS

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**Programming Languages:** Java, Node.js, C/C++, Python, PHP, HTML/CSS/JS, SQL, TypeScript, Golang, Elixir

**Machine Learning/AI and Data Science:** TensorFlow, Keras, OpenCV, NLTK, NumPy, Pandas

**Tools/Frameworks:** React Native, React.js, jQuery, Git, Flask, MySQL, MongoDB, GCP, AWS, PostgreSQL

**Operating Systems:** Windows 10, macOS, Linux

**Interests:** Artificial Intelligence, Machine Learning, Data Science, Backend development, Entrepreneurship

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## EXPERIENCE

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**Panostack: Full-Stack Intern** (Jul 2020 - Aug 2020)

- Built their website, login/signup system, chat system, search bar, app features (follow/like/share), and more to provide a better UX for the users of the platform
- Utilized HTML/CSS and JS with jQuery (Front End), PHP/Node.js and SQL (Backend)

**BLINKAH: Machine Learning/AI Intern** (Dec 2020 – Feb 2021)

- Built CV software to detect pedestrians, ongoing traffic, and neighboring car lanes for enhanced car safety ratings with TensorFlow and OpenCV in Python

**ezML: CEO** (Jan 2021 - Present)

- AI-as-a-Service platform to make machine learning accessible to everyone. Gives users ability to build industry-standard ML models without requiring any previous knowledge
- Currently finishing product for public deployment which is being built with Nuxt.js for frontend, Elixir for backend, Python for AI/ML, and PostgreSQL as database
- 1<sup>st</sup> Place in entrepreneurship competition & received \$5.5k funding for further development of startup

**Luxor: Backend Engineer Intern** (Jun 2022 – Present)

- Working on building JIT liquidity and arbitrage MEV Bot, which utilizes the advantage of being poolside to find and execute opportunities found on the mempool to generate positive alpha

**SnapCivics: CTO** (Aug 2022 – Present)

- Leading and executing the various technical aspects/projects of the SnapCivics Non-Profit
- Currently developing blockchain voting app to pitch to VCs and politicians as a replacement for the current voting system. It allows cryptographic verification to legitimize the vote count, which solves the problem of voter fraud and strengthens our democracy

**MyFly: Senior Director of Tech** (Aug 2022 – Present)

- Leading tech committee to effectively complete required technical operations at MyFly Non-Profit.
- Currently leading the development of the course platform to teach students financial literacy in an interactive and engaging way

**Blue Ocean Entrepreneurship Global Competition** (*Placed Top 100 out of 2,000+ submissions*): Created a pitch by conducting market research, developing a business model, and analyzing the competitive landscape for an Artificial Intelligence as a service (AIaaS) startup.

**Beyond Code Hackathon** (*competed against students & professionals globally*) **1<sup>st</sup> place:** Built mobile app for nutrient tracking based on food recognition using React Native for UI and Flask for backend. Utilized transfer learning with Keras to minimize loss and increase classes of the food recognition model.

**MD Hacks** (*competed against high school & college students globally*) **Tied for 3<sup>rd</sup> place:** Built chrome extension that automatically censors inappropriate content on a page by using the chrome-api to alter the users DOM

**Hoo Hacks** (*competed against students & professionals globally*): Built a high-throughput P2P secure edge computing network which allows containerized remote execution of code in a computational pool. Using python for client side with raw sockets for P2P and FTP with a load balancer built with Nest.js.

**Linux Memory Manager:** Designed and implemented with C a memory manager in the form of a library that allocates & de-allocates memory to your user space while taking care of the problems of heap fragmentation behind the scenes.

**A4 Machine Learning Bootcamps (Intro to ML, Intro to DL, CNN for genomics, and RNN for timeseries data):** Developed fundamental understanding of deep learning (Feedforward neural networks, Convolutional neural networks), 1D vs. 2D CNNs in addition to implementing deep learning models with Keras and Tensorflow to make predictions

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## EDUCATION

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### California High School (2020 - Present)

*San Ramon, CA*

- Unweighted GPA 3.92/4.0
- Relevant Courses Taken and/or In Progress: Pre-Calculus (H), AP Calculus BC, AP Statistics, Physics (H), AP CS A, Object-Oriented Programming Methodologies in Java & Intermediate Software Design in Java (dual enrollment w/ Foothill College)
- Relevant Unofficial Courses Taken and/or In Progress: Beginning C++ Programming, Java Programming Masterclass, Java Network Programming, Data Structures and Algorithms, Android Java Masterclass, Complete React Native + Hooks Course, Web Developer Bootcamp 2023, Python for Machine Learning & Data Science Masterclass, Python for Computer vision with OpenCV and Deep Learning, Scalability & System Design for Developers, Designing Elixir Systems with OTP, Lean Product Management, Machine Learning System Design