



Chan Woo Kim

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SKILLS

React.js & React Native	Data Science/A.I.
PostgreSQL & GraphQL	Python (Tensorflow & PyTorch)
MongoDB	LaTeX
Node.js	Docker

WORK HISTORY

A.I. MUSIC RESEARCHER 07/2018 to CURRENT

NYU Shanghai | Shanghai, Shanghai

Created a dataset of Chinese music MIDI, the first of its kind with the rich meta data and size.

Worked alongside NYU students to develop a generative model that learns music styles and transfers styles within a MIDI file.

CO-FOUNDER, HEAD OF TECHNOLOGY 06/2018 to CURRENT

Vind Maps LLC | Shanghai, Shanghai

Produced the original idea & formed the team.

In charge of the entirety of product development, involving making a secure Node.js API, React Native front-end, PostgreSQL database, which had to be optimized for handling geospatial data.

Delegated responsibilities to team members that live abroad.

FOUNDER 06/2017 to 05/2018

NtMalDetect | Shanghai, Shanghai

Produced the original idea to use machine learning to assess Native API System Calls to detect malware by learning its behavior instead of its static features.

Model: Support Vector Machines optimized by Stochastic Gradient Descent and Coordinate Descent trained on TF-IDF values of N-Grams of API System Calls.

Wrote the **paper**, which was endorsed by a leading expert in the field to be uploaded to Cornell's arXiv.

Awards:

Yale Science and Engineering Award

4th Place Grand Award for Systems Software @ Intel ISEF (International science competition with 1800 participants)

\$1200 Special Award From China Association for Science and Technology (CAST)

\$1000 Special Award From King Abdulaziz & His Companions, "MAWHIBA" Cybersecurity section

CO-FOUNDER, EXECUTIVE & TECHNOLOGY OFFICER 06/2018 to 07/2018

EDUCATION

Alertive | Philadelphia, PA

Incubated at the LaunchX 2018 @ University of Pennsylvania.

Produced the original idea and created the entirety of the product, which uses Deep Learning to detect screams in audio data and anomalies in health data in order to provide instant notifications for those in critical conditions such as sexual assaults and heart attacks.

FULL STACK DEVELOPER

12/2017 to 01/2018

Eduhora Inc. | Shanghai, Shanghai

Technologies: Node.js, PostgreSQL, GraphQL, Docker, Python, NGINX.

As one of the only two software developers at the time, much of my work included writing new APIs and maintaining & deploying servers using Docker and Node.js.

Quote from the CTO: "...he has written and documented quality code that has been pushed directly into production."

Entrepreneurship Program | LaunchX 2018 Entrepreneurship Program 2018 University of Pennsylvania, Philadelphia, PA

Spent 4 weeks going from ideation to the creation of a company, Alertive in my case. Learned the process of incorporation, how to conduct quality market research, and skills involved in working in a team to produce an original idea that solves a real problem.

Superlatives: Best Coder, Best Builder

High School Diploma 2019 Shanghai American School, Puxi Campus, Shanghai, China

AP/IB Credits:

AP Seminar 4	AP Physics 1 5
AP Psychology 5	AP Chinese 4
AP Calculus BC 5	AP Microeconomics 5
AP Calculus, AB Subscore 5	AP Macroeconomics 5
IB Computer Science HL Predicted 7/7	

Senior Year Course-load:

AP Physics C Electromagnetism	AP English Language
AP Physics C Mechanics	AP Statistics
AP Chemistry	AP Research

GPA: 3.83/4.00, **3.99/4.00** average in the second half.

TOEFL iBT: 118/200

SAT: 1550 (750 & 800)

SATII Math Level 2: 800/800

SATII Physics: 800/800