Edwin Zhang

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Education

University of California, Santa Barbara, California   Septemember 2019 – June 2023
Master of Science Computer Science, Bachelor of Science Computer Science
Regents Scholar (top 2.5% of school), College of Engineering Honors Student
Relevant coursework: Probability and Statistics, Artificial Intelligence, Machine Learning, Intro to Data Science, Intro to Deep Learning

Palomar Community College, San Marcos, California   September 2018 – June 2019
Relevant coursework: Multivariable Calculus and Differential Geometry, Linear Algebra

Research Interests

- Machine Learning (AGI, Reinforcement Learning, Deep Learning, Unsupervised Learning)

- Statistical Finance (Econometrics, Stock Market Modeling)

Research Experience

Biometric authentication with EEG brainwaves (Yi Ding, Professor Tobias Hollerer)   March 2020 – Sept 2020
Experiment designer

- Designed variant of leave one out validation for binary classification on authenticated user
- Created new data loader class with Pytorch to use with Yi's existing EEG CNN
- Wrote up results for publication, submitted to AAAI in September 2020.

UCSB Sexuality Research Project (Professor John Baldwin)   October 2019 – Present
Backend developer and Webmaster

- Reduced load times by 80% by enabling server and client side caching, increasing monthly viewership by 30% from 40,000 to 53,000
- Lead developer for homepage, topics page, search bar, and FAQ page.

Employment History

Stealth
Software Engineering Intern   June 2021 – Current

- Working on something exciting and new!

Allthenticate
Lead Fullstack Engineer   March 2020 – Current

- Led development on cloud platform in early stage startup, architecting scalable and flexible REST API from scratch.
- Taught advanced Vue JS by taking complete responsibility at each step of the development phase – delivered full web application while teaching and leading two other interns working on the same project.
- Built and deployed python backend with over 27000 lines to use Elastic Beanstalk, implementing dockerized development process to speed up iteration cycles by 25%.
- Gained experience with emerging web technologies such as JWT, ProtoBuf, and Nuxt.js

Yaitea (self-employed)

Business Owner   August 2018 – September 2019

- Assessed a need for tutoring code and critical thinking to children, as programming skills arose in demand and traditional tutoring services struggled to keep up.
- Gained comprehensive experience with Google Cloud, Nginx, WordPress, and Frontend Web Dev through creating the tutoring business' website, at **yaitea.com**
- Collaborated with several students and parents to create lasting relationships
- Applied ability to learn rapidly and on the fly through the picking up and application of basic marketing to give sales pitches on the tutoring service
- Organized an extensive programming curriculum of 24 lessons
- Taught over 200 hours of coding and critical thinking to students

Mathnasium

Math Tutor   June 2017 – September 2017

- Developed robust teamwork skills through daily collaboration with other tutors
- Leveraged detail-oriented personality to precisely record each student's progression through problems, homework sets, and curriculums
- Communicated clear and concise summaries for parents after each student's session
- Began to develop tutoring skills that would eventually evolve into Yaitea.

Awards and Honors

- First out of 78 in Startup Category at SDhacks, 2021

- Best use of Google Cloud out of 71 at SBhacks, 2021

- First out of 70 in Database Category at SBhacks, 2020

- Second out of 85 in AI classification competiton at UCSB, 2020

- First overall out of 6 at Santa Barbara Startup Weekend, 2019

- Regents Scholar UCSB, 2019

- AP Scholar with Distinction, 2019

- USA Computing Olympiad Gold League, 2018

Professional Skills

Advanced   Intermediate

Pytorch   **React JS**

Technical Communication (Explaining Code)   Bash Scripting

Numpy/Pandas   Flutter

Vue JS (Frontend Web Dev)   Keras