

## EDUCATION

**University of California Santa Barbara** | *B.S. Computer Engineering*

2020 - 2024

Emphasis on Machine Learning and Computer Programming

GPA: 3.4

Current Classes: Theories of CS, HRDW/SFTW Interface, Computer Architecture, Machine Learning Design

## WORK EXPERIENCE

**Synopsys** | *Application Development Technical Summer Intern*

Santa Clara, CA | Jun-Sep 2022

- Developed novel modifications to a branching process flow to reduce internal server load.
- Responsible for remodeling cross-functional integration and data synchronization between finance, payroll, and ERP system to increase employee efficiency and sync data between internal and external process flows.
- Automated contractor onboarding process saving 22,000 employee hours annually using Python and SQL.

**Chipotle** | *Assistant Order Manager*

San Ramon, CA | Jun-Sep 2021

- Managed orders, back-room inventory, and customer service.
- Streamlined process for resource scheduling based on forecast of seasonal demand and current inventory.

**NPTutoring** | *CEO / Software Development*

San Jose, CA | 2018-2020

- Created a Non-Profit tutoring company.
- Utilized skills in Web Development and SEO to launch a website including TCP/IP for a scheduling calendar.
- Raised >\$5,000 and Partnered with Saraswath Foundation to improve educational facilities around the world and simultaneously tutor children in the local community.

## PROJECT EXPERIENCE

**Emotion Recognition Deep Learning Project**

Mar 2022

- Utilized convolutional neural network (CNN) to recognize 7 different human emotions based on the person's facial expression up to 82% accuracy using PyTorch ML framework.
- Implemented a frontend GUI in MATLAB and trained the network by web crawling with Python scripts.

**TensorFlow Predictive Analysis – Stock Market Trend**

Dec 2021

- Developed a predictive model using sentiment analysis with TensorFlow framework.
- Created GUI visualization of sentiment analysis data with 10,000+ news articles.
- Utilized News APIs to relate recent company news with company performance and effect on stock.

**Supply Chain – Process Optimization**

Nov 2021

- Ran regression to optimize output for a manufacturing company at a national club conference.
- Optimized machines, workers, and total output to maximize monthly revenue from \$80k to \$120k

**Full-Stack Development and Optimization**

Oct 2021

- Developed an interactive website for tutoring company as a platform to connect tutors with tutees and provide an automatic scheduling calendar.
- Utilized PHP/SMTP to provide email functionality, SEO, and optimized hosting with Google Firebase.

## SKILLS

**Applications:** Linux, Excel, PowerPoint, CUDA, Firebase, Jira**Languages:** Python, C++, HTML, CSS, PHP**Cloud-Based Tech:** AWS, Azure, Firebase, Boomi**Other:** TensorFlow, PyTorch, Hadoop, Power BI, Tableau

## CERTIFICATIONS

**Neural Networks and Deep Learning** | *deeplearning.ai*

Jan 2022

**Boomi Professional Developer Certification** | *Boomi Education*

Aug 2022