

Tinh-Phong Nguyen

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EDUCATION

California Polytechnic State University

San Luis Obispo, CA

Bachelor of Science in Computer Science (GPA: 3.8/4)

June 2026

- **Relevant Coursework:** Programming Languages; Intro to Software Engineering; Design and Analysis of Algorithms; Systems Programming; Discrete Structures; Data Structures; Computer Organizations; Project-Based Object-Oriented Programming and Design; Fundamentals of Computer Science; Linear Analysis

EXPERIENCE

Full-stack Software Engineering Intern

June 2024 – Aug. 2024

4yourbusiness INC.

Pleasanton, CA

- Employed a full-stack web application/desktop program utilizing **MySQL, React.js, Node.js, Express.js and Electron.js**, following **Agile** development methodologies to improve and optimize company inventory management, resulting in improved accuracy and seamless operations by **59%**
- Led a strategic migration process from Microsoft Access to MySQL, integrating data migration tools that enhanced system reliability while reducing data retrieval times, resulting in a **25%** improvement in operational efficiency
- Incorporated eBay Selling and Browse APIs to facilitate inventory tracking, enhancing listing/inventory effectiveness

Technical Operations Engineer

Oct. 2021 – July 2023

4yourbusiness INC.

Hayward, CA

- Performed health checks, data wiping, and integrity checks on equipment for sale, leveraging server networking and PuTTY terminal emulator, which contributed to over **\$200,000+ in profits**
- Delivered tailored technology solutions to support the operational needs of **100+** enterprises across the globe
- Inspected and packaged incoming equipment, guaranteeing the dispatch of shipments, enhancing the company's vendor ratings by **51%**

PROJECTS

Neural Network Benchmark | *Python, Tensorflow, Keras, Minitab*

Sep 2024 – Present

- Spearheaded the training of neural network models **CNN, RNN, FFNN, LSTM** using **Python, Keras, and TensorFlow** to find changes in the performance of image recognition tasks
- Tested models on datasets of varying sizes **1000 - 10,000 images** by running methodical experiments, identifying optimal architectures for different dataset scales
- Performed statistical analysis using **Minitab**, to analyze model performance metrics which provided insights on how neural network architecture impacts image recognition performance

Aim Trainer | *Python, Docker, Flask*

Aug. 2024 - Sep. 2024

- Developed an aim-training game using **Flask and Python**, with RESTful APIs to track user scores, improving game engagement by allowing users to submit and view leaderboard scores in real time
- Implemented Docker containerization for the application, streamlining deployment and reducing environment setup time by **90%**, ensuring consistent execution across development and production environments

Chess AI Project | *Python, TensorFlow*

Dec. 2022 – June 2023

- Deployed an advanced AI chess robot in collaboration with **Sigma Phi Delta** Professional Engineering Fraternity, resulting in a **1500** chess rating
- Harnessed Monte Carlo Tree Search Prediction Algorithm and Alpha-Beta Pruning Algorithms for move selection, which minimized time in search tree navigation by **50%**
- Trained AI models with **TensorFlow Library** on a dataset of **100,000** Lichess games which broke ties with **Convolutional Neural Networks**

SKILLS

Languages: Java, Python, C, SQL, JavaScript, HTML/CSS, RISC-V Assembly

Frameworks: React, Node.js, Spring, Express.js, Electron.js, Flask, Bootstrap

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, MySQL, VIM, Linux CLI, Docker

Libraries: TensorFlow, Keras, NumPy, Matplotlib, Axios, Material UI, React Router DOM

Other: Data Analytics, Digital Strategy, Cloud Computing, RESTful APIs, Minitab