

Tinh-Phong Nguyen

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EDUCATION

California Polytechnic State University

San Luis Obispo, CA

Bachelor of Science in Computer Science

June 2026

- **Relevant Coursework:** Networks and Parallel Computing; Computer Security; Database Systems; Programming Languages; Software Engineering; Design and Analysis of Algorithms; Systems Programming; Discrete Structures; Data Structures; Computer Organizations; Project-Based Object-Oriented Programming and Design

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, Google Colab, 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
- Performed statistical analysis using **Minitab**, to analyze model performance metrics which provided insights on how neural network architecture impacts image recognition performance

Aery | *TypeScript, React, Next.js, Docker, Prisma, PostgreSQL, Zod, Chakra UI*

Sep. 2024 - Dec. 2024

- Developed a social media app with **TypeScript, React, Next.js, and Prisma**, enabling over **100 students** to track and share daily streaks and habits within friend groups, fostering community engagement and accountability
- Streamlined user data management with **PostgreSQL and Docker**, achieving a **90%** reduction in database retrieval time and ensuring reliable, scalable backend performance for an improved user experience
- Integrated an authentication system from scratch using **Zod** for input validation, **NextAuth.js** for session management, and custom middleware to enhance security

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, TypeScript, HTML/CSS, RISC-V Assembly

Frameworks: React, Node.js, Spring, Express.js, Electron.js, Next.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, Chakra UI

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