

# 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*

- Implemented a full-stack web-application/desktop program utilizing **MySQL, React.js Express.js and Electron.js** to enhance and automate company inventory management, resulting in improved accuracy and seamless operations by **59%**
- Directed a strategic migration effort 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
- Integrated eBay Selling and Browse APIs to facilitate inventory tracking which improved listing/inventory efficiency by **43%**

### Operations Technician

Oct. 2021 – July 2023

*4yourbusiness INC.*

*Hayward, CA*

- Leveraged server networking and PuTTY terminal emulator to perform health checks, data wiping, and integrity checks on equipment for sale, contributing to over **\$40,000+ in profits**
- Delivered tailored technology solutions to support the operational needs of **100+** enterprises across the globe
- Inspected and packaged incoming equipment and products, guaranteeing the dispatch of shipments, enhancing the company's vendor ratings by **51%**

## PROJECTS

### Adaptive Multi-Restaurant Web Application | *React, JavaScript, Bootstrap, Git*

June 2024 – Aug. 2024

- Engineered responsive front-end web applications for the business development of 3 restaurants, connecting users to one platform and producing **35%** more traffic among the websites
- Incorporated React's component-based architecture to create reusable and maintainable UI components, enhancing code efficiency and reducing development time by **2 work weeks**
- Orchestrated a series of code review sessions that engaged a cross-functional team of 8 developers, ensuring adherence to best practices and achieving a **30%** improvement in code quality metrics as measured by error rates.

### 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 **Alpha Beta Pruning** algorithms, reducing search tree navigation time by **80%**
- Trained AI models with **TensorFlow Library** on a dataset of **100,000** Lichess games, breaking ties with a **Convolutional Neural Network** and achieving a **90%** accuracy rate in predicting optimal moves

### OOP Simulation Project | *Java, IntelliJ, PApplet*

Dec. 2022 – June 2023

- Refactored a large and unorganized program containing a Virtual World with **10+ entities** roaming the world using PApplet, improving code readability by **75%**
- Applied AStar pathing algorithms with the Entities in the program, increasing simulation efficiency by **25%**

## TECHNICAL SKILLS

**Languages:** Java, Python, C, SQL, JavaScript, HTML/CSS, Assembly

**Frameworks:** React, Node.js, Spring, Express.js, Electron.js, Bootstrap, Tailwind, Material-UI

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

**Libraries:** TensorFlow, NumPy, Matplotlib