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

EXPERIENCE

Frontend Developer — Dec 2024 – Present
AI for Search and Rescue @ Cal Poly — *San Luis Obispo, CA*
- Collaborated with a team to design and develop a web application using **React, Node.js, and Firebase**, digitalizing search and rescue operations and leveraging **AI models** to improve search accuracy and efficiency
- Adapted a React-based dashboard to visualize AI-predicted clue locations, enabling search and rescue teams to analyze incident data efficiently in the command post

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

Aery | *TypeScript, React, Next.js, Docker, Prisma, PostgreSQL, Zod, Chakra UI* — Sep. 2024 - Dec. 2024
- Developed a full-stack social media app with **TypeScript, React, Next.js, Docker, PostgreSQL and Prisma**, enabling over **100 students** to track and share daily streaks and habits within friend groups, fostering community engagement and accountability
- 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