

# Thomas Nguyen

Thomasnguyen0712@gmail.com • (714) 724-0246 • Anaheim, CA • Website: [thomasnguyen.tech](https://thomasnguyen.tech)

## CAREER OBJECTIVE

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Aspiring Software Engineer seeking an entry-level position to apply academic knowledge, practical project experience, and strong adaptability, problem-solving skills, and attention to detail in building innovative software solutions.

## EDUCATION

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### California State University, Long Beach

August 2022 – December 2024

*B.S. Computer Science*

*Long Beach, California*

- **GPA:** 4.0
- **Notable Courses:** Machine Learning, Deep Learning, Artificial Intelligence, Databases, Algorithms and Data Structures.

## WORK EXPERIENCE

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### Cal State University Long Beach

November 2023 – Present

*Teaching Assistant*

*Long Beach, California*

- Conduct lab sessions to demonstrate the use of Vivado Tool for RTL design and HDL analysis.
- Guide students through lab assignments during office hours and one-on-one sessions.
- Grade and proctor exams, collaborating with faculty to develop course and lab materials.

### Office of Research Development at CSULB

November 2023 – September 2024

*Research Assistant*

*Long Beach, California*

- Achieved a 98% accuracy rate in detecting Hardware Trojan attacks by developing and deploying machine learning models for side-channel analysis.
- Conducted an analysis of Large Language Models (LLMs), including ChatGPT and Google Gemini, for applications in Computer Science and Cybersecurity education, culminating in a conference publication.
- Supported ongoing research projects by conducting data collection, analysis, and software development.

### Au Lac Fountain Valley

September 2020 – July 2024

*Shift lead/Manager*

*Fountain Valley, California*

- Improved staff performance by modifying the POS system, streamlined communication between front and back teams.
- Created a new program for reports, payroll, and tip distribution, cutting processing time by 90%.
- Maintained high standards of food quality and cleanliness to ensure customer and employee satisfaction.

## PROJECTS

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### Wraith Encrypted Communication App

February 2024 – Present

- Develop cross-platform front-end applications with React and integrated backend services using GoLang.
- Design and document key features, outline important use cases, diagrams and create mock design for application.
- Collaborated across functions in a Scrum environment to implement secure, user-friendly features.

### Web crawling and Pagerank algorithm implementation

November 2023

- Developed a Python program to crawl web pages efficiently, generate directed graphs, and analyze page connections.
- Applied Google's PageRank algorithm to evaluate web pages based on link structures.

### BlockChain Project with Professor Penn Wu at Cypress College

August 2022

- Designed a simple blockchain model in Java and Python.
- Learned to use the hash function SHA-256 for cryptographic security implementation.

### Employees payroll calculator for work in VBA and JavaScript

June – July 2022

- Created a new procedure, program and algorithm for calculating tip and payroll in VBA and Google Apps Script.
- Reduced redundancy tasks and cut time by 90% and added new features to calculate tips accurately and fairly.

## SKILLS

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**Programming & Web Development:** Python, C++, Java, GoLang, TypeScript | Node.js, Next.js, React, Tailwind CSS.

**Machine Learning/AI:** TensorFlow, Keras, NumPy, Pytorch, Scikit-learn.

**Database & Analysis:** SQL, NoSQL (MongoDB), Redis | Pandas, Matplotlib, Networkx.

**Tools & Technologies:** Git & GitHub, Docker, Google Cloud, Jira, AI Tools (ChatGPT, Gemini, Claudia).

**Soft Skills:** Highly adaptable, detail-oriented, quick learner, excellent communication, and interpersonal abilities.