Thomas Nguyen

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CAREER OBJECTIVE

Aspiring Software/ML Engineer and Data Scientist seeking an entry-level position to apply academic knowledge and hands-on project experience in software development and AI-driven solutions.

EDUCATION

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

Office of Research Development at CSULB   **November 2023 – Present**
Research Assistant   *Long Beach, California*
- Developed and deployed machine learning models for side-channel analysis, achieving a 98% accuracy rate in detecting Hardware Trojan attacks.
- Analyzed Large Language Models (LLMs) such as ChatGPT and Google Gemini for applications in Computer Science and Cybersecurity education, leading to a conference publication.
- Assisted in data collection, analysis, and software development to support ongoing research projects.

Cal State University Long Beach   **November 2023 – Present**
Teaching Assistant   *Long Beach, California*
- Led lab sessions, demonstrating the use of Vivado Tool for RTL design and HDL analysis.
- Provided student support through office hours and one-on-one assistance with lab assignments.
- Proctored exams and collaborated with faculty on course and lab material development.

Au Lac Fountain Valley   **September 2020 – July 2024**
Shift lead/Manager   *Fountain Valley, California*
- Enhanced staff performance by modifying the POS system, improving communication time between front and back teams.
- Developed a new program for writing reports, payroll, and tip distribution, reducing processing time by 90%.
- Ensure customer and employee satisfaction daily through food quality control and maintaining cleanliness standards.

PROJECTS

Wraith Encrypted Communication App   **February 2024 – Present**
- Developed cross-platform front-end applications using React, and integrated backend services with GoLang.
- Designed and documented key features, outline important use cases, diagrams and create mock design for application.
- Worked cross-functionally in a Scrum environment to implement secure and user-friendly features.

Web crawling and Pagerank algorithm implementation   **November 2023**
- Developed a Python program to efficiently crawl web pages, creating directed graphs and analyzing page connections.
- Implemented Google's PageRank algorithm to score web pages based on link structures.

BlockChain Project with Professor Penn Wu at Cypress College   **August 2022**
- Design a simple blockchain model in Java and Python.
- Learn 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.
- Reduce redundancy tasks and cut time by 90% and added new features to calculate tips accurately and fairly.

SKILLS

Programming & Development: Python • C++ • Java • GoLang • TypeScript | Node.js • React • Tailwind CSS • Ionic
Machine Learning/AI: TensorFlow • Keras • NumPy • Pytorch • Scikit-learn
Database & Analysis: SQL • NoSQL (MongoDB) • Redis | Pandas • Matplotlib • Networkx
Tools: Git • GitHub • Docker • AWS • Jira AI • Tools (ChatGPT, Gemini, Claudia) • Vivado • Jupyter Notebooks
Soft Skills: Highly adaptable, detail-oriented, quick learner, excellent communication, and interpersonal abilities.