Phuoc Nguyen

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EDUCATION
University of the Pacific, Stockton, CA   Expected: Dec. 2025
Bachelor of Science, Computer Science   GPA: 3.77
- ▪ Relevant coursework: Parallel Programing, Data Structure, Design and Analysis of Algorithms, Artificial Intelligence, Data Analytics, Linear Algebra, Intro to Statistics, App Development, Operating Systems, Programming Languages, Machine Learning, Computer Simulations, Web Development

WORK EXPERENCE
Tutor – General Academic Tutoring Center   Aug. 2023 – Dec. 2023
- ▪ Supported students with exam preparation and homework on math and programming classes

Undergraduate Researcher – University of the Pacific
Dr. Julia Olivieri – scRNA-seq data analysis   Aug. 2024 – Present
- ▪ Performed primary component analysis on scRNA-seq data
- ▪ Simulated other datasets using SPARSim to compare primary components
- ▪ Visualize data in R

SKILLS
Python, Java, C/C++, TensorFlow, PyTorch, OpenCV, pandas, scikit-learn, NumPy, Git, Linux, Bash, Docker, R, JavaScript

PROJECTS
Detecting sign language (Python)   Jun. 2024 – Aug. 2024
- ▪ Wrote Python script to preprocess data – WLASL, a dataset of 12000 videos describing 2000 common English words – into images and XML files
- ▪ Utilized OpenCV for computer vision, and trained mobile_v2, a lightweight convolutional neural network model for real time image recognition

Connect 4 with AI (Python)   Nov. 2023 – Dec. 2023
- ▪ Implemented Minimax algorithm to replicate the game Connect 4 for an AI agent against human
- ▪ Implemented Pygame library to animate the game

Object Oriented 101 website (HTML, CSS, JavaScript, PHP)   Oct. 2024 – Dec. 2024
- ▪ Designed the rough layout of the website using Figma in a team of 3
- ▪ Led the front-end development of the website with HTML and CSS
- ▪ Developed and tested back-end code compiler/interpreter for users to practice programming on the website in JavaScript, PHP, and Flask

Surviving Southwest RPG 2-D game (Java)   Apr. 2023 – May 2023
- ▪ Utilized OOP techniques in game loops, designing maps, obstacles, puzzles, enemy pattern
- ▪ Used GitHub for teamwork collaboration, including debugging and reviewing, between 5 members

Estimating Pi (C)   Feb. 2024 – Mar. 2024
- ▪ Implemented POSIX Pthreads API and mutex lock in Ubuntu Linux environment to parallelize a serial program that estimates the value of Pi
- ▪ Documented its scalability and efficiency as number of cores increased

Hotel room booking – data analysis (R)   Apr. 2023 – May 2023
- ▪ Analyzed and visualize correlations to determine relationships between factors that can affect room booking of a hotel in R

LEADERSHIP/CAMPUS INVOLVEMENT
Theta Tau – Professional Engineering Organization   Nov. 2022 – present
- ▪ Positions held: Professional Development Coordinator, Executive Board member – Corresponding Secretary