

Talon Pham Pollard

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Objective

Computer Engineering student with an interest in electronic design and embedded systems. Seeking opportunities of research and personal development. Ready and willing to expand skill sets on the job.

Education

California State Polytechnic University, Pomona: 3.87 GPA

Aug 2020 – Jun 2023

Bachelor of Science, Computer Engineering

Experiences

University Police Department, Cal Poly Pomona – Community Service Officer

Nov 2021 – Current

- Provide customer service as a front office clerk, responsibilities include answering phones, e-mails, and greeting visitors.
- Perform safety escorts for students living on campus, traffic control, housing/library patrol, and fire and medical escorts in events of emergency. Observe and report suspicious activities or incidents campus-wide to dispatch unit when necessary.
- Shadow and assist the department's IT technician, responsibilities include assessing faulty equipment, assemble & disassemble computer parts, and setting up general workplace with phone lines, computers, software, printers, etc.

Monrovia Unified School District – Pro-Active Tutoring

Feb 2021 – Jun 2021

- Tutored K-12 AVID students in various subfields of mathematics and helped prepare AP students for their AP Calculus AB/BC exams.
- Facilitated online group discussions and 1-on-1 breakout rooms during class and office hours for students experiencing difficulties with the course material.
- Assisted teachers in further explaining course materials and explore different methods of problem solving.

NASA Community College Aerospace Scholars – NCAS Scholar

Oct 2019 – Aug 2020

- Successfully completed NASA online course and was invited to Armstrong Flight Research Center for onsite competition.
- Engineered a Mars rover prototype with improved functionalities and designed a 3D model using CAD — Fusion 360.
- Collaborated in a team to compose a mission design to Mars; won 1st place on NCAS's first Virtual Onsite Experience competition.

Campus Police, Victor Valley College – Data Entry

Sep 2019 – Jun 2020

- Transitioned large sets of parking ticket data between old and new systems; techniques include web scraping, reformatting data into CSV/Excel files, creating algorithms to encode sensitive information, and automating text input.
- Programmed a series of Python projects to aid with workflow and efficiency as opposed to manual labor, expected work time reduced by 99% — saved time was spent helping other employees and faculties with miscellaneous tasks.
- Assessed various techniques and solution possibilities with senior ITs for better data management.

Projects

FPGA with Verilog

youtu.be/oUkPiBfSyuQ

- Designed a lock-unlock mechanism using a series of switches, 7-segment displays, RGB LED, and sounds on the FPGA board to orchestrate a state diagram — a series of logic to be performed when transitioning between program states.

Database Manager

github.com/Talonee/Database-Manager

- Deployed Python scripts to parse websites' texts into Excel sheets, filter and reorganize data, and transfer reformatted information into new websites.

Re-Muse

github.com/Talonee/Re-Muse

- Created a Python application with GUI capability using PyQt5 to search, retrieve, and modify songs' MP3 metadata.
- Integrated web scraping, REST APIs, and parallel computing to improve search accuracy.

Skills

Programming Languages: Verilog, Python, C#, MATLAB

Tools: SPICE Simulations, FPGA Design (Xilinx Vivado), Git, Adobe Creative Cloud, Microsoft Office Suite

Others: Digital Circuit Design, Logic Circuit Design, Electronic Circuit Design, Computer Software Programming