

Siwen (Victor) Wang

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www.viweb.one

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SOFTWARE DEVELOPMENT ENGINEER

Object-Oriented Methodologies | Database Programming | Solutions Solving, Testing & Optimization

Performance-driven, self-motivated, passionate computer-science student with proven software development and strong analytical skills through relevant projects from education and work experience. Obtained President's Honor List during 2020-2021 Academic year with overall 3.76 GPA. US Citizen.

SKILLS

Programming Experience in: Python, Java, JavaScript, C++, Kotlin, Swift, NoSQL, SQL

Familiarity with: Flask, Git, GitHub, Maven, AWS, SpringBoot, Bootstrap, Heroku

WORK EXPERIENCE

CALSys Lab, Cal Poly Pomona, Computer Science Department, POMONA, CA 2021-present

RESEARCH ASSISTANT/ TEAM COORDINATOR

- Cyber Security related project, led a project team to analyze the malicious hacking-related dark webs with a Machine Learning classifier to predict malicious hacking activities.
- Upgraded web crawler to improve the efficiency of data collecting.
- Redesigned SQL database for better performance.

MULTICULTURAL RADIO BROADCASTING INC, PASADENA, CA 2018-2019

Audio Engineer

- Maintained high-quality audio elements for day to day broadcast programs.
- Upgraded file storage management system to enhance production process.
- Recorded, edited, and verified over 300 commercial audio files per week to ensure program quality and accuracy.

PROJECTS

GRAPHING CALCULATOR — TWO VERSIONS: C++ WITH SFML / ANDROID APP USING JAVA & KOTLIN

- Implemented all base classes and functions using Shunting Yard and RPN algorithms for calculation. Achieved 100% accuracy of calculation.
- Developed user interface with capabilities such as zooming in/out, moving and switching the graph between Cartesian and Polar coordinate system.

VI WEB — PERSONAL WEBSITE

- Developed a personal website from scratch, containing several apps using various popular web frameworks/ techniques, including Python Flask, Bootstrap, MongoDB, APIs, and JSON.
- Deployed on both AWS EC2 and Heroku.
- www.viweb.one

Database Management System Simulator — C++

- Implemented database management system (DBMS) for data retrievals
- Developed base classes and functions with B-tree algorithm and various mapping methods.
- Analyzed and designed state machine map paradigm for solving complex database problems.

EDUCATION

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA — B.S IN COMPUTER SCIENCE

- President's Honor List during 2020-2021 Academic year (GPA 3.76 / 4.0)
- Graduation date: June 2022

CITRUS COLLEGE — A.S IN RECORDING TECHNOLOGY