

Siwen (Victor) Wang

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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, MongoDB, SQL

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

WORK EXPERIENCE

CALSys Lab, Cal Poly Pomona - Computer Science Department, POMONA, CA 2021-2022

RESEARCH ASSISTANT/ TEAM COORDINATOR

- Led a team to analyze the malicious hacking-related dark webs with a Machine Learning classifier to predict malicious hacking activities.
- Upgraded web crawler using Selenium to improve the efficiency of data collecting.
- Designed algorithm to handle captcha test, successfully analyzed and passed 90% of tests.

MULTICULTURAL RADIO BROADCASTING INC, PASADENA, CA 2018-2019

AUDIO ENGINEER

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

PROJECTS

GRAPHING CALCULATOR — Two Versions: C++ with SFML / JAVA & KOTLIN (For Android)

- 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.

RESTAURANT ONLINE ORDERING SYSTEM — Python Flask, JavaScript, SQL

- Developed a food online ordering website that allows customers to pick which items they would like to add to their cart and make an account to purchase the item and have it delivered to them to the specified address.
- Designed SQL Database structure to maximize the efficiency of data processing.
- Created frontend UI that allows restaurants to display an up-to-date menu, and alert user when selecting out-of-stock items.

Database Management System — 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