WILLIAM SOSROPARTONO

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EDUCATION

California State Polytechnic University, Pomona   Pomona, CA
BS in Computer Science   *August 2017 - August 2021*
GPA: 3.52/4.0 – Cum Laude
MS in Computer Science   *January 2022 -*
GPA: 4.0/4.0

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, HTML/CSS, Scheme (Lisp)
Frameworks: React, Node.js, JUnit, Selenium
Developer Tools: Git, Postman, VSCode, PyCharm, IntelliJ

WORK EXPERIENCE

Incoming Software Product Engineer Intern   Redlands, CA
Esri   *June 2023 – August 2023*
- Automating test harnesses on various web applications with Selenium and Java.

PROJECTS

Gitlet | *Java, Java Standard Library*
- Developing a version control system backed by a tree-based data structure that uses SHA-1 encryption.
- Using Java standard library to implement init, add, commit, log, merge, branch, checkout functions.
- Capable of handling multiple file additions and removals with constant run time efficiency.

Build-Your-Own-World | *Java*
- Designed and implemented an engine that generates pseudorandom explorable 2D tile-based worlds.
- Worked on unique features such as map generation, keyboard input, save and load structures, random encounters, various avatar skins, and unique seeds for corresponding unique worlds.

Weather Web Application | *React.js, Javascript, axios, Git*
- Wrote a single-paged React app that utilizes Axios to fetch OpenWeatherMap's REST API based on user input.
- Elegantly displays response on front-end styled with Bootstrap.
- App fetches user's current location and displays weather utilizing Javascript Promise handling.

Instabasket | *HTML/CSS/Javascript, Bootstrap, Django, mySQL*
- Deployed a usable grocery delivery web application. Implemented sign in page, and search bar for items.
- Used agile methodologies with 2 other developers, completing features in weeklong sprints.

Scheme Interpreter | *Python*
- Developed the main logic of a Scheme Interpreter using a recursive descent parser.
- Required a significant understanding of lexical, syntactic analysis and tail recursion optimization.

ACTIVITIES/INTERESTS

Science Council | *Director of Programming*   Spring 2020 – Spring 2021
- Directed and managed over 30 clubs, helping with club registration, deadlines and setting up events.
- Translate in person events to an online setting introducing new events including virtual club fair, college of science showcase and research fair.

Alpha Phi Omega | *Panel, Executive Committee, Webmaster*   Fall 2017 – Summer 2021
- Organized and kept data on member requirements, managed wordpress for the chapter, created slides for general meetings.