MANDY ZHOU

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EDUCATION

Bachelor of Science in Computer Science   Aug 2021 to May 2024

Arizona State University, Tempe, AZ   4.01 GPA

- Dean's List   Fall 2021, Spring 2022, Fall 2022
- Relevant Coursework: Data Structures and Algorithms, Introduction to Software Engineering, Digital Design/Computer Organization & Assembly Language, Introduction to Java & Object-Oriented Programming, Operating Systems

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C/C++, HTML/CSS, Javascript, SQL, SKILL, Bash
- **Engineering Technologies:** Git, GitHub, BitBucket, Visual Studio Code, Eclipse, MATLAB, Salesforce, JIRA, Confluence
- **Operating Systems**: Windows, Unix/Linux, Mac OS, iOS, Android

PROFESSIONAL WORK EXPERIENCE

Engineer Intern   Jul 2022 to Present

Microchip Technology, Chandler, AZ

- Developed a Python script utilizing Click (command line interface) and Pandas to report, filter, and analyze Process Design Kits (PDK) usage activity with over 2,000 script log uses.
- Automated generating techfiles through a Python script used for Cadence Virtuoso, utilizing NumPy, Pandas, and Click.
- Developing a Python script to remove PDKs using Perl and DesignSync (data management) commands from specific sites worldwide to recover disk space and reduce PDK selection errors.

PROJECTS

Portfolio Website: zhoumandy.github.io   Dec 2022 to Present

- Created a responsive portfolio website using HTML, CSS, and Javascript.

JavaFX Pizza Ordering App   Aug 2022 to Dec 2022

- Implemented a JavaFX pizza ordering program to facilitate orders through the customer and cashier synchronously with the ability to read and store user data, add and delete items in an order, and monitor order progress.
- Led a team of 5 using an agile development framework using JIRA and GitHub.

Helixcases/Lyft Hackathon   Mar 2022 to July 2022

- Finalist in a 3-hour collaborative programming hackathon using Java to minimize driver rating bias - efficiently calculating user wait and drive times by detecting closest accidents, using a Queue to add and remove accidents, analyzing peak hours, etc.

Project SPYN (Autonomous Vehicles)   Sep 2021 to Nov 2021

- Programmed and designed an autonomous robot vehicle using MATLAB and Lego EV3 to navigate through a maze and various obstacles to successfully pick up, carry, and drop off a wheelchair passenger to a destination.

EXTRACURRICULAR INVOLVEMENT

Treasurer   Aug 2021 to Present

Women in Science and Engineering (WISE)

- Manage all financial decisions; monitor financial records including funds distribution, budgeting, and purchase requests.
- Coordinate and facilitate events for professional development, leadership, networking, and community service, e.g. Professional Roundtable, Resume Review, etc.
- Organized and attended WISE's conference appearance at TechUp for Women NYC.

OTHER WORK EXPERIENCE

Autodesk Support Specialist   Dec 2021 to Aug 2022

Education At Work, Tempe, AZ

- Resolved customer issues and questions regarding verification, software installation and licensing through live chat and email.
- Utilized Salesforce, Oxygen, and SheerID softwares and services.