MANDY ZHOU

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EDUCATION

Bachelor of Science in Computer Science   Aug 2021 to May 2024
Minor in Business
Arizona State University | Tempe, AZ   4.01 GPA
- Dean's List   Fall 2021, Spring 2022, Fall 2022
- Relevant Coursework: Data Structures and Algorithms, Software Engineering, Operating Systems, Theoretical CS, Principles of Programming Languages, Object-Oriented Programming, Digital Design/Computer Organization & Assembly Language

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C/C++, HTML/CSS, Javascript, SQL, SKILL, Bash
- **Engineering Technologies:** Linux, Visual Studio Code, Git, GitHub, Jira, BitBucket, Eclipse, MATLAB, Salesforce, MS Office, Google Suite
- **Operating Systems**: Windows, Unix/Linux, MacOS, iOS, Android

PROFESSIONAL WORK EXPERIENCE

Undergraduate Student Researcher | Arizona State University | Tempe, AZ   Jan 2023 to Present
- Working with Dr. Mitsumi Nakamura on the research of deep learning in cognitive processing of combined visual and textual inputs using Python.

Engineer Intern | Microchip Technology | Chandler, AZ   Jul 2022 to Present
- Developed a Python script utilizing Pandas and Click (CLI) to report, filter, and analyze Process Design Kits (PDK) usage activity to increase efficiency in PDK data management.
- Designed and debugged a Python script to generate techfiles used for Cadence Virtuoso, utilizing Pandas, NumPy, and Click.
- Improved SKILL scripts to include Help buttons to link to respective Confluence pages.
- 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.
- Developing a SKILL script using SKILL IDE to track usage logs by quantity and team.

PROJECTS

Portfolio Website zhoumandy.github.io   Dec 2022 to Present
- Created a responsive portfolio website using HTML, CSS, and Javascript.

Pizza Ordering System   Aug 2022 to Dec 2022
- Implemented a Java and 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 | Women in Science and Engineering | Arizona State University   Aug 2021 to Present
- 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.

Member | Women in Computer Science, Society of Women Engineers | Arizona State University

OTHER WORK EXPERIENCE

Autodesk Support Specialist | Education At Work | Remote / Tempe, AZ   Dec 2021 to Aug 2022
- Resolved customer issues and questions regarding verification, software installation and licensing through live chat and email.
- Utilized Salesforce, Oxygen, and SheerID softwares and services.