

MANDY ZHOU

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EDUCATION

Bachelor of Science in Computer Science

Expected Graduation: May 2024

Arizona State University, Tempe, AZ

GPA: 4.01

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

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.
- Created a Python automation script to generate techfiles 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

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JavaFX Pizza Ordering System

Aug 2022 to Dec 2022

- Developed a JavaFX pizza ordering program to facilitate orders through the customer and cashier synchronously.
- Led a team of 5 using an agile software development approach using JIRA and GitHub.
- Utilized design tools such as Astah and Moqups to create UI prototypes, Use Case Diagrams, CRCs, and Class Diagrams.

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.