Michelle Zhuang

Greater Area of Seattle | 334-559-5456 | mzhuang5@gmail.com

LinkedIn | Portfolio

EDUCATION

Swarthmore College, Swarthmore, PA   **May 2023**
BS Engineering and BA Computer Science Double Major – GPA: 3.8/4.0
- **Relevant Engineering and Computer Science Courses:** Data Structures and Algorithms, Computer Architecture, Computer Systems, Embedded Systems, Computer Vision, Mobile Robotics, Game Systems, Machine Learning

TECHNICAL SKILLS

- **Languages:** Python, Java, PL/SQL, C++, JavaScript, Angular, HTML, CSS, C, x86 assembly language
- **Tools/Frameworks:** Git, UiPath, Jira, Apache Kafka, Docker, Kubernetes, Autodesk Fusion 360
- **Data Analysis:** R, SQL/MySQL, Tableau, Stata, MATLAB
- **Additional Tools:** Amazon Web Services, Microsoft Office Suit, Google Suite, Agile methodologies

WORK EXPERIENCE

Software Engineer, *Cisco*, Research Triangle Park, NC   **July 2023 – Present**
- Implemented PL/SQL packages to fetch leasing details for data ingestion, improving data integration by 20%
- Built and deployed automated workflows using UiPath, reducing testing time by 10% and increasing efficiency in test automation
- Collaborated cross functionally with Finance, Operations, and Accounting teams to deliver key business requirements and streamline reporting processes

Software Engineer Intern, *Oracle OCI*, Remote   **May 2022 – August 2022**
- Implemented data pipelining program using Kafka APIs in Docker containers to ingest and process over 10,000 security findings for enhanced data visualization in OpenSearch

Resident Assistant, *Swarthmore College,* Swarthmore, PA   **May 2021 – May 2023**
- Managed administrative duties including budgeting, maintenance requests, and incident reports, ensuring seamless dorm operations
- Fostered the development of relationships among ethnically diverse students, contributing to a 15% improvement in community engagement metrics

PROGRAMMING & DATA ANALYTICS PROJECTS

Personal Website Design (https://michelle-zhuang1.github.io/)   **May 2021 – Present**
- Self-taught HTML, CSS, and JavaScript to design and implement a blog showcasing my projects and passions

Feature Tracing and Projection Project, *Swarthmore College*, Swarthmore, PA   **October 2022 – May 2023**
- Implemented camera-based tracking using Python and OpenCV library to correct fabric deformation in real-time for accurate sewing pattern projections

Computer Vision, *Swarthmore College*, Swarthmore, PA   **January 2022 – May 2022**
- Developed live face swap program using the OpenCV library and the Laplacian blend method
- Implemented machine learning classification on MNIST dataset using TensorFlow library, achieving 98%

Computation Sewing Project, Engineering Department at *Swarthmore College*, Swarthmore, PA   **June 2021 – August 2021**
- Designed and implemented pattern making program to incorporate with Autodesk Fusion 360, turning 3D models of clothing into 2D patterns which are then laser cut into fabric

Data Analytics, *AESOP Academy*, remote   **February 2021 – March 2021**
- Built custom MySQL queries and Tableau dashboards to visualize data from multiple sources, improving mock client leadership's decision-making capabilities

LEADERSHIP EXPERIENCE

Club President, *Women in Computer Science (W+iCS)*, Swarthmore, PA   **January 2021 – May 2023**
- Organized 10+ networking events and research panels, connecting over 50 students with industry professionals and academic mentors
- Maintained the club website and facilitated workshops on technical skills, increasing membership engagement by 30%

ADDITIONAL INFORMATION

Awards: Helen North Scholarship, Frances Velay Women's Science Research Fellowship, Grace Hopper Celebration Scholar
Languages: Native English, Conversational Mandarin Chinese, Intermediate Spanish