





# Zahraa Alhmood

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## EDUCATION

### University of Michigan-Dearborn

April 2025

#### Computer Engineering—BSE

- Activities/Societies: Marketing Director for Google Developer Student Club, member of Intelligent Systems Club and Society of Women Engineers.
- Relevant Courses: Computer Methods, Advanced Software Techniques in Computer Engineering, Microprocessors and Embedded Systems, Mobile Development, Computer Architecture, Cloud Computing

## RELEVANT EXPERIENCE

### Software Engineer Intern | Ithaka

June 2024 - Present

- Boosted team productivity velocity by 6% through the effective use of Agile methodologies and Jira for sprint planning and task management.
- Developed a new JSTOR feature for production, refining UI components, using asynchronous functions for data handling, and emitting custom events for better component communication.

### Engineering Laboratory Assistant | University of Michigan-Dearborn

Jan.2023 - Present

- Utilized Microsoft Excel for data entry, analysis, and tracking student performance, demonstrating proficiency in spreadsheet management and data analysis
- Instructed students in 3D modeling using Fusion360, emphasizing precision and attention to detail.
- Led electrical circuit lab sessions that parallel software test case development and Utilized C++ for Arduino projects.

### Team Lead Engineer | NASA L'SPACE Academy

Jan. 2022 - Apr. 2022

- Led the engineering team in the design and development of a mission-critical rover. Demonstrated exceptional leadership skills in steering project direction and ensuring team cohesion.
- Compiled and managed project reports to ensure accurate documentation.
- Utilized **Siemens NX CAD** software for the intricate modeling of the rover and design verification

### Marketing Director | Google Developer Student Club—U-M Dearborn

Jan. 2023 - Present

- Developed marketing strategies to increase club membership and engagement
- Developed and implemented marketing strategies with a focus on budgeting and resource allocation, underlining skills in financial planning and marketing analytics.
- Managed social media platforms to maximize outreach and member interaction

## PROJECTS

### Translate Mate (ECE 428 Project) | JavaScript, node.js, Google Cloud Services, HTML/CSS

- Integrated Google Cloud SQL to manage translation records securely for efficient data storage and retrieval.
- Designed and executed a robust server setup including API endpoints for saving translations and fetching translation history, adhering to RESTful standards.
- Leveraged Google BigQuery with MySQL for real-time data analysis on translation data.
- Visualized translation trends with Looker Studio dashboards connected to BigQuery.

### Address Book App | Java, XML Android Studios

- Employed XML layouts to define the visual structure of app screens.
- Integrated with UI components defined in XML layouts using findViewById() method to access and manipulate them programmatically.
- Utilized ArrayAdapter in conjunction with ListView to populate and display contact and favorites lists.
- Integrated AlertDialogs with user interactions such as editing contacts, adding favorites, and handling invalid input.

## SKILLS

**Languages:**JavaScript/TypeScript C, C++, Java, , HTML/CSS, Python, MySQL | **Version Control:** Git, Github

**Data Analysis/Visualization:** Microsoft Excel, BigQuery, Looker Studio

**Design and Productivity Tools:** Adobe Creative Suite (Photoshop, Illustrator, InDesign), Microsoft Office Suite (Word, Excel, PowerPoint, Teams), Siemens NX CAD and Fusion360 for 3D modeling and design.

**Quantitative:** Strong background in engineering and mathematics, great at financial analysis and problem-solving.