

MELANIE EHRLICH

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Education

University of Central Florida

Bachelor of Science in Computer Science, 3.77 GPA

Aug 2020 – May 2024

Orlando, Florida

Experience

Microsoft

May 2023 – Aug 2023

Software Engineer Intern

Atlanta, Georgia

- Implemented server side searching and sorting for the iOS Provisioning Profiles in Intune with Microsoft graph API calls and using React.js and Redux.js to modify the UI, increasing efficiency.
- Separated log lines in the Windows Sidecar using C#, reducing log file length by 4% and increasing readability.
- Tested and updated documentation for a new third party app catalog for Intune Suite using virtual machines for new feature releases to ensure customer satisfaction.

General Dynamics Mission Systems

Feb 2022 – Feb 2023

Software Engineer Intern

Orlando, Florida

- Developed laser detection software written in C# and C++ according to customer requirements, including implementing a new protocol for international messages to be read by the software.
- Participated in code reviews, sprints, and scrum meetings in an Agile work environment using Jira and Confluence.
- Performed tests on new software features using Jenkins and work on Java application development in Android Studio.

Socio-Technical Interaction Research Lab

May 2021 – Feb 2022

Undergraduate Research Assistant

Orlando, Florida

- Used MySQL and AWS to troubleshoot participant issues with uploading data for a Instagram Data Donation project.
- Completed risk annotations on participant Instagram conversations, to be used in a machine learning model.
- Increased participation in the study by contacting external organizations, following up with participants by email, and updating the study's website.

Projects

KnightAssist | *Flutter, Dart, React, Node.js, Express, Git, Figma, MongoDB*

Sep 2023 – Present

- Leading a team of six developers as a Project Manager and conceptualizing and documenting product features while using Jira to maintain the product backlog and distribute tasks to team members.
- Designing intuitive user interfaces in Figma and creating visual product assets for a mobile and web application that aims to assist users in finding volunteer opportunities and organizations in maintaining volunteer data.
- Implementing backend API and security features with Express and developing the mobile application with Flutter in collaboration with team members using proper version control practices.

Budgie | *Firebase, Node.js, Express, React, Git, Jest*

Oct 2022 – Nov 2022

- Created a website and mobile application that allows users to manage their expenses and compare the total amount spent for a month to their target amount, including a calendar view of when bills are due.
- Utilized Firebase to host the database and wrote API functions using Express to send information from the database to the frontend, such as the bills and budgets that a specific user created.
- Collaborated in a team of eight members and used ClickUp for project management and task distribution.

Technical Skills

Languages: C, C++, C#, Python, Java, HTML, CSS, JavaScript, TypeScript, Swift, Dart

Developer Tools: VS Code, Visual Studio, IntelliJ, CLion, Android Studio, Xcode, Google Cloud Platform

Technologies/Frameworks: Flutter, Express, Node.js, React, Redux, Firebase, MongoDB, MySQL, AWS, Linux, Git

Leadership / Extracurricular

Association for Computing Machinery

May 2021 – Sep 2022

Marketing Director

University of Central Florida

- Previously responsible for managing ACM-W social media profiles and leading the Marketing Committee.
- Created flyers for events using Canva to increase turnout and promote diversity and inclusion of women in tech.
- Collaborated with other club officers to organize new events and grow the organization.

Knight Hacks

Nov 2020 – Feb 2022

Communications Director

University of Central Florida

- Lead a team of students to market Knight Hacks, UCF's annual hackathon, to thousands across from the US.
- Managed Knight Hacks social media profiles and divided tasks among communications team members.
- Increased hackathon turnout with a marketing plan which in turn allows more students to gain experience in building software projects.