

## EDUCATION

---

### University of Central Florida | Burnett Honors College

Graduated December 2023, Summa Cum Laude

B.S. Computer Science, Minor: Secure Computing and Networks | GPA: 3.958

**Relevant Coursework:** Discrete Structures, Data Structures, Security in Computing, OOP, Algorithms, Systems Software, Compiler Design, Operating Systems, Cryptography, Senior Design, TOC

## EXPERIENCE

---

### Google – Software Engineering Intern, Identity and Connections

Kirkland, WA 05/2023 - 08/2023

Developed a feature for the People Business and Logic team centered in the process of URL generation to further service/client uniformity in C++ and Java. During this time I worked on the following:

- Implemented a feature to add resource policies for profile and contact photos on user request, bolstering security and expected to affect over 100k QPS.
- Spearheaded the design and implementation of a unified profile and contact photo library to increase usability and readability for services and clients while considering its integration with future services.

### Google – STEP Intern, Cloud Databases

Kirkland, WA 05/2022 - 08/2022

Introduced a feature for the Memorystore for Redis team to allow customers to upgrade existing Basic tier Redis instances (with no availability guarantees) to the High Availability tier (with 99.9% SLA) without customer data loss or downtime. During this time I worked on the following:

- Used GCP and GCE APIs with Java client libraries to store, update, and generate instance metadata and configurations required to initialize a new Redis server.
- Utilized protocol buffers to modify Memorystore for Redis' APIs, allowing a user to request an upgrade on their Redis instance tier, and used Pub/Sub messaging to bootstrap VM's on a Redis instance.

### Google – STEP Intern, Google Assistant

Virtual 05/2021 - 08/2021

Worked alongside the Assistant App Integrations team to assist development on the Gmail and Calendar widgets to further Assistant-widget integration for the release of Android 12. During this time I worked on the following:

- Used Java and XML to implement a way for the Gmail widget to load without user input by automatically supplying account information to the configuration activity when called by Assistant.
- Utilized an internal Google library to incorporate more detailed speech and text responses for widgets when shown by Assistant without the need of an internet connection.

### Google – Computer Science Summer Institute

Virtual 06/2020 - 07/2020

- Introduced to JavaScript and the p5 library, and completed daily programming projects created by the CSSI team to bolster our JavaScript skills.
- Used the skills taught by the Googlers to make a game which automatically generated terrain based on the amplitude of the song inputted.

## PROJECTS

---

### Project Mercury , Co-Lead Software Engineer/ Project Manager

02-11/2023

- Worked with the United States Army Reserves on continued development of a mobile app tasked to streamline and digitize common soldier action items like dental and RST forms.

### Morgan and Morgan Mate, UCF KnightHacks, Co-Lead Software Engineer

05/2023

- Created a mobile legal assistant which is able to summarize legal documents and translate the summaries into other languages with a single picture using MERN, Google Vision OCR, and GPT-4.

### UCF GO, Co-Lead Software Engineer

04-05/2023

- Utilized the Google Maps API and MERN stack to create a mobile and web app version of Pokemon Go for UCF students.

### Saberfy, Shellhacks, Co-Lead Software Engineer

09/2022

- Used Python and the Spotify Web API to generate a playable Beat Saber level using user-inputted Spotify URLs.
- **Awards Won:** Second Place, Best First Time Hackers

## SKILLS

---

**Programming Languages:** Java, C++, C, C#, Javascript, Python, Go, HTML, CSS

**IT Constructs:** OOPS, Data Structures, Algorithm Analysis, Graph Theory