

# Carter Albrecht

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## EDUCATION

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### University of Central Florida

May 2021

*Bachelor of Science in Computer Science*

- Magna Cum Laude
- 3.93 GPA

### St. Petersburg College

May 2018

*Associate's in Arts*

- Summa Cum Laude
- Graduate of the Early College Program

## EXPERIENCE

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### Software Development Engineer

May 2021 – Present

*Esri*

- Leveraging Esri's ArcGIS platform to deliver a real-time geospatial communications and situational awareness tool
- Building server architecture using Node.js/TypeScript and Java to manage websocket communications at scale
- Developing an efficient system to ingest, analyze, and communicate live locational data
- Working with the product owner to satisfy evolving customer requirements using an Agile development process

### Computer Science Teaching Assistant

Aug. 2020 – May 2021

*University of Central Florida*

- Instructed over 1000 students across 3 courses in C Programming and Data Structures and Algorithms
- Held regular office hours to assist students with programming projects and course content
- Taught both introductory and advanced programming concepts in C and Java

### Software Engineering Intern

May 2020 – Aug. 2020

*Jacobs*

- Given D.o.D. Secret Clearance
- Engineered a remote configuration feature for a handheld radio frequency device paired via Bluetooth to Android
- Created a responsive web app using HTML/CSS/JavaScript to display locations and strengths of sensor data
- Gained experience working with geospatial data, cellular frequencies, and handling real-time events

### Automation Engineering Intern

May 2019 – Aug. 2019

*KeyW*

- Developed automated testing suites for Android and .NET applications
- Increased test suite performance by 100% and expanded test coverage through unit, integration, and E2E tests
- Utilized Appium/Selenium in Python and Java to automate test plans
- Engineered testing platform to reduce manual labor and certify release candidates 75% faster

## PROJECTS

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### Bitewise | *Flutter, Google Cloud, MongoDB, Node.js*

- Collaborated with graduating peers to deliver a local food discovery platform that promotes popular meals to nearby users
- Created a mobile application for both Android and iOS using Flutter and Firebase
- Built a REST API in Node.js with support for geoqueries to efficiently provide data relevant to user's locations
- Assumed Project Manager duties and led overall development

### Tiny Compiler and Virtual Machine | *C*

- Wrote a compiler in C for a small language including a lexical analyzer, parser, and code generator
- Developed a Virtual Machine to execute generated code via a custom instruction set architecture

## TECHNICAL SKILLS

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**Languages:** Java, C, JavaScript, TypeScript, Dart, SQL

**Libraries/Platforms:** Node.js, Express, JSP, MongoDB, MySQL, Mocha

**Tools:** Git, Linux, Google Cloud Platform, Jenkins, Jira