# Brian Chang

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## Education

**University Of Central Florida** — **Expected Graduation: December 2024**
Bachelor of Science in Computer Science — **GPA: 3.6**

## Certifications

**FreeCodeCamp Responsive Web Design** | HTML, CSS, Flexbox, CSS Grid (2022)
**FreeCodeCamp JavaScript Algorithms and Data Structures** | Javascript, OOP (2022)
**FreeCodeCamp Front End Development Libraries** | React, Redux, Sass, Bootstrap, jQuery (2022)
**MTA: Introduction to Programming Using Java** | Java, Object-Oriented Programming (2021)

## Technical Skills

Python, Java, C#, C, C++, HTML, CSS, JavaScript, JSX, React, Redux, Bootstrap, jQuery, SQL, Unity 3

## Personal Projects

**Dungeon Game** | canCode Hackathon (2021)

- Created a video game on Scratch that users can currently play on the Scratch website.
- Developed at the 2021 canCode Hackathon and won the award of "Honorable Mention."
- Created animations using Scratch's sprite editor and scripts.

**Trivia Game** | React Application (2022)

- Used React to develop an app that utilizes the Opentbd API to create a trivia game.
- Utilized Javascript and JSX to create components to randomly generate questions.
- Used HTML and CSS to style and design the application to make it user-friendly.

**Dinosaur Run** | Knighthacks Hackathon (2021)

- Developed a fully functional, side-scrolling video game on the Unity3 engine.
- Used C# and object-oriented programming to create components and scripts.
- Built at the University of Central Florida's Knighthacks' 2021 Hackathon event.
- Collaborated with other developers to create assets and scripts.

**Calculator** | React Application (2022)

- Utilized React and Bootstrap to create a 4-function calculator app.
- Incorporated CSS, HTML, and Javascript to style and design the calculator app.
- Implemented React hooks to create states for each operation.

**MySPIM** | MIPS Machine Processor (2022)

- Collaborated with other students to create MySPIM, a MIPS processor replica.
- Uses the C language to fetch instructions and decode operations.
- Reads in machine code and calculates addresses written to a register.

## Involvement

**Computer Science Honor Society** | Officer (2021)

- Worked with teachers to organize multiple events in the computer science honor society at Spanish River High School.
- Taught concepts of algorithms and cyber security to other students interested in computer science.