

# TALAL JAWAID

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## EDUCATION

**California State University, Sacramento**  
B.S Computer Science, GPA 3.11/4.00

Fall 2017 - December 2019  
Dean's Honor Roll

## TECHNICAL SKILLS

**Programming Languages:** C/C++, Java, Python, JavaScript  
**Frameworks:** Codename One, Appium, Espresso, React (TypeScript ES6)  
**Operating Systems:** Linux, MacOS, Windows, Android, iOS  
**Tools:** Git, Agile and Scrum Methodologies, Eclipse, Visual Studio, LaTeX

## PROJECTS

**Controls and Power Team Lead, Hornet Hyperloop, CSUS** 2017-Present

Managing a team of 30+ engineers and programmers in the Hornet Hyperloop club.

- Built scaled-down prototype focused on automation of travel for purposes of Hyperloop Pod Competition hosted by SpaceX.
- Worked on design and implementation of pod system controls through custom control boards.
- Implemented Pod controls and data acquisition using CAN BUS which resulted in increases in product efficiency and performance.
- Invited to SpaceX to present in Hyperloop Competition III & IV in 2018 & 2019 and aiming at breaking 350+ mph for Hyperloop Competition V in 2020.

**Muzei Android Application Testing** 2019

- Implemented Espresso testing as well as Appium testing framework in combination with UIAutomator2 driver to test Google's Muzei application, built in Kotlin and Java, to ensure functionality, usability, and consistency.

**Asteroids Java Game** 2019

- Used object-oriented graphics programming in Java using Codename One framework to create game mimicking Atari's Asteroids game.

## WORK EXPERIENCE

**Software Development Intern, Redtail Technology, Sacramento, CA** 2019-Present

- Created Room Scheduling React application in ES6 for use in product suite offered by Redtail Technology.
- Implemented calendar event management functionality using FullCalendar library and React component composition.
- Implemented CRUD functions using AJAX calls to Redtail CRM database API.

**Instructional Assistant, Robla Preschool, Sacramento, CA** 2015-2019

- Managed and assisted classrooms of 20+ three to five-year-old children.
- Coordinated with lead teacher to ensure consistent approach to social emotional and practical learning as prescribed by California Preschool Curriculum Framework.

## LEADERSHIP EXPERIENCE

**President, Executive Committee, Hornet Hyperloop, CSUS** 2018-Present

Club Lead in charge of ensuring club funds, project workflow, and team efficiency and participation. Implemented Agile methodology to vastly improve efficiency. Directly met with sponsors and developed relations to fund club. Helped improve club presence on social media.

**Treasurer, Executive Committee, Hornet Hyperloop, CSUS** 2018-2019

Club Lead in charge of managing annual budget for most expensive engineering club on campus. Generated over \$50k in three months for Pod manufacturing budget through sponsorships and corporate outreach. Helped grow club from 10 engineers to 60+ engineers, marketers, and coordinators.

**Event Coordinator, IEEE, CSUS** 2018

Club Officer in charge of coordinating with industry contacts and hosting events on campus.

**Student Academic Senate Committee, CSUS** 2018-2019

Served on advisory body to main student government association, ASI, to take positions on academic issues.