

# 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, TypeScript, Python

**Frameworks:** Codename One, Appium, Espresso, React

**Tools:** Git, Agile and Scrum Methodologies, Eclipse, Visual Studio, LaTeX

## WORK EXPERIENCE

**Software Development Intern**, Redtail Technology, Sacramento, CA

2019-Present

- Created room booking app with TypeScript and React for internal use by Redtail Technology employees.
- Implemented calendar functionality using FullCalendar library and React component composition.
- Implemented CRUD actions for room bookings using AJAX calls to Redtail API.
- Improved perceived loading performance by prioritizing AJAX requests by room popularity.
- Implemented persistence of room preferences through use of local storage

**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.

## RELEVANT EXPERIENCE AND 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 physical design and implementation of pod control system electronics.
- Oversaw and assisted with implementation of pod controls and data acquisition using peer to peer network (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

- Tested Google's Muzei application to ensure functionality, usability, and consistency.
- Implemented end-to-end tests with Espresso and Appium testing frameworks, and UIAutomator2 driver

**Asteroids Java Game**

2019

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

## LEADERSHIP EXPERIENCE

**President, Executive Committee**, Hornet Hyperloop, CSUS

2019-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.