

# Alex Juan

Rockville, MD | (240) 551-8999 | alex3juan@gmail.com | [linkedin.com/in/alexyjuan/](https://www.linkedin.com/in/alexyjuan/)

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## EDUCATION

**University of Maryland**—College Park, MD

Expected Dec. 2022

B.S. in Computer Science, Minor in Astronomy

GPA: 4.0

- Relevant Courses: *Data Structures; Algorithms; Object Oriented Programming; Computer Systems; Discrete Math; Applied Probability and Statistics; Linear Algebra*
- *Frederick Douglass Full Scholarship recipient; Dean's List*

## SKILLS

**Programming Languages:** Java, Python, C/C++, HTML, CSS, JavaScript

**Technologies/Environment:** Git, Linux, React Native, Android Studio, Figma, MongoDB, PTC CREO Parametric

**Language:** Mandarin (Bilingual)

**Certifications:** Oracle Java Foundations Certified Junior Associate Certification (Aug. 2020)

## PROJECTS

**React Native Side Project**, Rockville, MD

July 2020 – Present

**Spot Search App**

- Develop user experience with UI design software **Figma** to rapidly improve efficiency of prototyping process
- Build **React Native** mobile app with **Expo** to assist user in deciding leisure activities based on their preferences
- Integrate data with Google Places API to receive and store information into **MongoDB** database

**Auth0 Hackathon**, Rockville, MD

Aug. 2020

**Game Party App**

- Designed and programmed the chat system into the website with **React** and deployed the website through **Vercel**
- Utilized **express.js** framework and **socket.io** in the backend to save and display data between different users
- Instructed the team on building a user-friendly website using HTML Inline Frame element to display the games

**Hoya Hacks Hackathon**, Washington D.C.

Feb. 2020

**Greenback App**

- Led team in the development of Android mobile app with **Java** and **XML** to tackle real-world pollution problem
- Developed a QR code scanner using Player Service Vision package to retrieve a link on each scanned item
- Integrated user's authentication with **Google Firebase Authentication** to secure user data

## EXPERIENCE

**High School Computer Science and Math Tutor**, Rockville MD

July 2018 – Jan. 2021

**Self-Employed**

- Helped high school students excel in Pre-Calculus, AP Calculus, and Foundation in Computer Science courses
- Organized Pre-Calculus, AP Calculus, HTML, and Scratch concepts in simple and comprehensible format
- Simplified complex problems to individual learning levels and analyzed students' comprehension to prepare goals

**Raptors Who Code Club**, Rockville, MD

Dec. 2019 – May 2020

**Vice President**

- Designed robust software portfolio projects for student to strengthen their resume for technical positions
- Coordinated event with a Software Architect of 75+ participants to become more competent engineers
- Collaborated and developed a Prize Picker program in **C++** to generate names for Day of Code event

**Robotics Club**, Rockville, MD

Dec. 2019 – May 2020

**Officer**

- Reestablished and maintained a Slack server that provides homework help, free resources, and event information
- Utilized AWS DeepRacer to enhance students' experience through hands-on robotic race car project
- Organized marketing materials to publicize the club and the Machine Learning race car workshops