Alex Juan

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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

Pear Algorithm Project, Rockville, MD   Sep. – Nov. 2019
Traveling Salesman Problem Project
- Led the team of 4 to attempt on designing and creating a better approach for the traveling salesman problem
- Devised and created a system in **Java** to find the optimal path for a truck to travel between 7 cities
- Calculated the total transportation cost and the time spent running on the road to as small as possible

EXPERIENCE
High School Computer Science and Math Tutor, Rockville MD   July 2018 – Jan. 2021
Self-Employed
- Helped 2–5 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