James Xu

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Objective: I am a computer science major interested in many fields especially mobile and web development. I am constantly improving my skillset by learning new technologies and languages. I am actively seeking an internship for the fall of 2019.

Education:

University of Michigan • Ann Arbor, MI • B.S.E Computer Science   *Class of 2021*
GPA: 3.656, University Honors, Dean's List
Relevant Coursework: EECS 482: Introduction to Operating Systems, EECS 485: Web Databases & Information Systems, EECS 370: Introduction to Computer Organization, EECS 281: Data Structures and Algorithms

Harvard-Westlake High School • Studio City, CA   *Class of 2017*
GPA: 4.406W, 3.816UW, Cum Laude

Work Experience:

Microsoft (Xbox) • Incoming Software Engineering Intern • Seattle, WA   *June 2019 – Aug 2019*

NBC Universal • Mobile Developer Intern • Seattle, WA   *Jun 2018 – Aug 2018*
- Implemented and engineered major features for the Android and iOS versions of the NBC News app
- Learned the fundamentals of both mobile platforms using the languages Kotlin and Swift
- Created pull requests and engaged in code reviews with senior engineers to discuss potential improvements
- Worked with user interface designers to ensure the usability and accessibility of features
- Actively contributed to Agile Software Development workflow by accepting and completing tickets using JIRA

Kumon • Teaching and Grading Assistant • Studio City, CA   *Aug 2016 – Aug 2017*
- Responsible for teaching about 40 students math and reading based on Kumon's curriculum
- Instructed students on new topics and assessed their progress through testing

Projects:

Pincil (Android, Kotlin, Firebase, Google Maps API)   *Oct 2018*
- Winner of "Best Use of Google Firebase" during MHacks 11
- Designed an application to allow students to easily connect with tutors across campus
- Integrated the Google Maps API to track the location of all student requests and display them as digital markers
- Created user accounts with FirebaseAuth and used listeners to track new requests and offers in FireBaseDatabase

Face Recognition (React.js, Node.js, PostgreSQL)   *Aug 2018*
- Designed a React application that uses the Clarifai API to detect the gender, age, and demographic of a face
- Created a back-end server with Express.js that allows users to create and sign into their accounts
- Managed a PostgreSQL database to collect and store information about the activity of users

Engineering 100: Autonomous Vehicles (C++)   *Jan 2018 – Apr 2018*
- Lead a team of four to develop a quadcopter that can autonomously traverse an obstacle course
- Soldered on proximity sensors and researched optimal parameters for the PID controller
- Developed an algorithm to produce precise movements for the quadcopter

Organizations:

Michigan Daily Web Development Team • Front-End Engineer • Ann Arbor, MI   Sept 2018 - Present
- Developed sponsored classes page on gradeguide.com, allowing students to easily view class grade distributions
- Utilized React.js to create reusable class components and created a drop down menu to filter out classes
- Redesigned and architecture the Sass for gradeguide.com homepage based on user feedback

Trotter Distinguished Leadership Series • VP of Marketing and Media • Ann Arbor, MI   *Sept 2018 - Present*
- Assisted in establishing speaker series to provoke important conversations in the Michigan community
- Manage all web and social media content to promote future speaker events
- Contracted to maintain and modernize the Trotter Multicultural Center website using WordPress

Michigan Autonomous Air Vehicles • Strategy Team • Ann Arbor, MI   *Sept 2017 – Apr 2018*
- Designed C++ code for strategy team to control drone to guide Roombas towards goal line
- Created actions such as landing and tracking for autonomous path planning
- Used OpenGL to create a simple representation of the quadcopter's current path

Technical Skills:

Programming Languages: C++, JavaScript, Python, Swift, Kotlin, Java, MATLAB
Technologies: Git, React.js, Node.js, Flask, PostgreSQL, Firebase, XCode, Android Studio