RYAN SIU

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I'm a software engineer with two years of experience developing software. I'm interested in design and development for web, mobile, and computer applications.

EDUCATION

University of Michigan, Ann Arbor, MI　　　　　　　　　　　　*September 2018 - December 2021 (expected)*
Bachelor of Science in Computer Science
Courses: Discrete Math, Programming and Introductory Data Structures, Data Structures and Algorithms, Entrepreneurial Design (IoT)

Stuyvesant High School, New York, NY
Courses: AP CS/Data Structures and Algorithms, Software Development, Systems Level Programming, Computer Graphics, AP Statistics

EXPERIENCE

GradeGuide (The Michigan Daily), Ann Arbor, MI　　　　　　　　　　　　*September 2018 - Present*
Senior Software Developer
- Wrote Python scripts to add U-M course data into a SQL database. Data was used by front-end engineers to display on the website.
- Improved scalability by replacing all front-end calculations with a Python script to calculate statistics during deployment

Morgan Stanley, **New York, NY**　　　　　　　　　　　　*July 2018 - August 2018*
Business Analyst Intern
- Redesigned an obsolete web application UI with Angular and Material Design to handle review of segregation of duties (SoD) inside the firm, allowing reviewers to more intuitively navigate the UI
- Drafted mockups with Angular and Material Design for the UI of a new web application to handle SoD rule management; developed a simpler interface and gave administrators the ability to create additional types of rules

Horizons Summer School Electronics Class, Brooklyn, NY　　　　　　　　　　　　*July 2017 - August 2017*
Teacher/Mentor
- Founded course and designed four-week curriculum to introduce a class of 7 middle schoolers to STEM
- Taught about Arduino, basic electronic components, and programming in C++ with project-based lessons. Students created final projects (such as a music player and a Simon Says game) showcasing their knowledge. At least one student continued to pursue electronics in high school, joining a FIRST Robotics Competition team.

ACTIVITIES

Stuyvesant Honor Society (ARISTA), **New York, NY**　　　　　　　　　　　　*June 2016 - May 2018*
VP of Web Development
- Developed new features, such as online essay editing, for the organization's website. Online essay editing was implemented using Google Drive API and OAuth; users authorized the web app's service account to share essays as a Google Doc with a tutor, and tutors added comments and suggestions on Google Docs.
- Assembled and managed 10-person committee to maintain and update the website
- Coordinated Parent Teacher Conferences by assigning 300 volunteers based on student/teacher requests and preferences

PROJECTS

Chron-x
- *https://github.com/siuryan/watch*
- *https://medium.com/@ryansiu/how-to-make-your-own-smartwatch-35ff8306c160*
- DIY smartwatch built using an Arduino, with an operating system coded in C++ that connects to an Android app written in Java

Augury
- *https://github.com/siuryan/augury*
- Web app that recommends stock trades using public sentiment towards companies from Twitter tweets
- Collaborated with partner to implement Google Cloud Platform unsupervised machine learning and sentiment analysis

SKILLS

Computer Languages
C/C++, Python, Java, Javascript, Go *(familiar)*

Software Development
HTML5, CSS3, Flask, React, SQL, Emacs, Git, Android, Terminal, Ubuntu, DigitalOcean, Arduino