

RYAN SIU

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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

September 2014 - June 2018

Stuyvesant Honor Society

Courses: AP CS/Data Structures and Algorithms, Software Development, Systems Level Programming, Computer Graphics, AP Statistics

EXPERIENCE

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.

PROJECTS

Chron-x

October 2018 - Present

<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++ and connects to Android app written in Java

Augury

October 2018

<https://github.com/siuryan/augury>

- Created web server that used determined public sentiment towards companies from Twitter tweets to recommend stock trades
- Worked with partner to implement Google Cloud Platform unsupervised machine learning and sentiment analysis
- Integrated Twitter API with server to query tweets; wrote static Jekyll web application to display recommendations

ACTIVITIES

GradeGuide (Michigan Daily), Ann Arbor, MI

September 2018 - Present

Senior Software Developer

- Rebuilt back-end to use Controller-Service-Repository architecture and wrote Python scripts to add data into a SQL database
- Facilitated progress on the website by assigning weekly tasks to a team of 5 members

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

SKILLS

Computer Languages
Software Development

Proficient: C/C++, Python, Java
HTML5, CSS3, Flask, SQL, Emacs, Jekyll

Familiar: Javascript
Git, React, Angular, Android, Terminal

CAMPUS INVOLVEMENT

Michigan Hackers, *Core Team* (September 2018 - Present) • Michigan Daily, *Senior Software Developer* (September 2018 - Present)