

Melanie A. Chow

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EDUCATION

University of Chicago, Chicago, IL

B.S. in Computer Science | GPA: 3.93

Expected June 2021

Stuyvesant High School, New York, NY

Advanced Designation with Honors | SAT: 2340 | GPA: 4.0

Graduated June 2017

EXPERIENCE

Medivis Inc, *Software Development Intern*, Brooklyn, NY

June - September 2018

- Designed and created a CosmosDB database to store anatomy part data.
- Built a web interface to collect, display, and modify data for both internal use by the 3D-modelling team, and external use by University clients.
- Wrote shell scripts in Python and JavaScript to migrate several thousand cells of data from Google Sheets and Autodesk Maya.
- Built a REST API to regulate how data is retrieved and sent to the web application using SQL and Express JS.
- Presented reports weighing the cost and time efficiency of each database design in front of all my colleagues.
- Engaged in code reviews and wrote extensive documentation on each application.

Environment New York, *Field Manager and Canvasser*, New York, NY

July - August 2017

- Raised over \$3,000 over 3 weeks by canvassing and leading 2-3 rotating canvassers each day.
- Trained, supervised and led fellow canvassers in worksites by stationing them in population-dense areas and providing good canvassing techniques.

Cooper Union, *Researcher*, New York, NY

July - August 2016

- Analyzed sustainable alternative fuels in computational chemistry using gas chromatography - mass spectrometry (GC-MS) to determine fuel components, and modeled over 70 molecules in Spartan.
- Presented the final research paper in front of hundreds of peers and multiple professors of The Cooper Union.

ACTIVITIES

International Leadership Council: Entrepreneurship, *Associate*, Chicago, IL

September 2017 - Present

- In charge of planning and teaching modules, such as those on marketing research, UI/UX design, public speaking, and business management fundamentals.
- Co-founded a startup that raised over \$5,000 over 100 days, as part of the club's 100 Day Startup Challenge, and won the award for Most Profit Made.
- Served as the Marketing Head for the startup: created the logo, the website, social events, slideshows, and posters.

ArtShould, *Mentor*, Chicago, IL

September 2017 - Present

- Hosted weekly art workshops for low-income students in neighboring schools of Hyde Park.
- Developed weekly lesson plans and mentored groups of elementary school kids on how to express and empower themselves creatively through art.

PROJECTS

SafeRoute – A web application that determines the safest route home, based on NYC public crime data.

- Determines a safety score for each route based on the number and type of crime along the path, using geo-coordinates retrieved from the Google Places API.
- Contains a 'crime cluster map' that groups nearby crime and displays them with markers using the Google Maps API.

TECHNICAL SKILLS:

Languages: C, Python, Java, JavaScript, CSS, HTML, R, SQL

Frameworks & Databases: Angular JS, Express JS, Node JS, CosmosDB/DocumentDB

Other: Adobe Photoshop CS6, Microsoft Office

INTERESTS:

Step Dance, Golf, Graphic Design, Painting, Piano, Calligraphy, and Animation