Melanie A. Chow

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EDUCATION

University of Chicago, Chicago, IL   *Expected June 2021*
Bachelor of Science in Computer Science, Minor in Statistics | GPA: 3.93

Stuyvesant High School, New York, NY   Graduated *June 2017*
Advanced Designation with Honors | SAT: 2340 | GPA: 4.0

EMPLOYMENT

Medivis Inc.   *June - September 2018*
Software Development Intern, Brooklyn, NY
- Designed and created a CosmosDB database to effectively store and reorganize anatomy part data.
- Wrote shell scripts to migrate over ten thousand cells of data from Google Sheets and Autodesk Maya to the new database (Python, JavaScript).
- Built a web UI for the database in order for the 3D-modelling team to add and update anatomy parts, and for University clients to view additional anatomy part information (Angular, Heroku).
- Built and designed a REST API to regulate how data is transferred between the web interface and the database (SQL, Express JS, Node JS).
- Presented reports on the cost and time efficiency of various database designs in front of all my colleagues.
- Engaged in code reviews and wrote extensive documentation for each component of the system.

Environment New York   *July - August 2017*
Field Manager and Canvasser, New York, NY
- Raised over $3,000 in 3 weeks to fund research on keeping waterways clean, and to promote environmental awareness in the local area.
- Trained, supervised and led 2-3 rotating canvassers by stationing them in population-dense areas and providing effective techniques and feedback. Teams fundraised around $800 per day.

PROJECTS

SafeRoute   *September 2018*
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 from the Google Places API.
- Generates a crime heat map, as well as a 'cluster map', that displays crime locations with informative markers.

ACTIVITIES

International Leadership Council: Entrepreneurship   *September 2017 - Present*
Associate, Chicago, IL
- Co-founded a startup that raised over $5,000 in 100 days, and won the award for Most-Profit-Made in the club's 100 Day Startup Challenge.
- Served as the Marketing Head for the startup, which included creating the logo, the website, slideshows, posters, and planning social events.
- Planned and will help teach modules on topics including marketing research, UI/UX design, public speaking, and business management fundamentals.

The Cooper Union   *July - August 2016*
Researcher, New York, NY
- Analyzed alternative sources of fuel using gas chromatography-mass spectrometry (GC-MS) to determine fuel components, and modeled over 70 molecules in Spartan to calculate the amount of energy released.
- Wrote and presented my final paper at a research symposium to an audience of invited guests, including hundreds of peers and various professors of the university.

TECHNICAL SKILLS:

Programming Languages: C, Python, Java, JavaScript, CSS, HTML, R, SQL
Frameworks & Development Tools: Git, VSTS, Angular JS, Express JS, Node JS
Other: Adobe Photoshop CS6, Microsoft Office