Melanie A. Chow

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Education

University of Chicago *Chicago, IL*
B.S in Computer Science (Specialization in Systems), Minor in Statistics || GPA: 3.94 *March 2021*

- **Relevant Courses:** Networks & Distributed Systems, Machine Learning in Medicine, Advanced Distributed Systems, Usable Security & Privacy, Human Computer Interaction, Databases, Security
- **Honors & Awards:** Student Marshal, Dean's List, Uncommon Hacks – "Most Uncommon Hack" (Feb 2019)

Experience

Lyft (Level 5 - Autonomous Vehicles Division) *Palo Alto, CA*
Software Engineer Intern *June 2020 – September 2020*

- Designed and created a new gRPC endpoint to associate trajectories with lane sequences in real time, improving ease of use, maintenance cost, language support, and dependency injection overhead
- Onboarded customers and created metric dashboards to monitor API latency and request load

Databricks *San Francisco, CA*
Software Engineer Intern *January 2020 – April 2020*

- Developed, designed, and deployed "in-product messaging and tours" for private preview customers, increasing customer engagement and overall user satisfaction
- Wrote integration tests, and created alerts and metrics to monitor feature behavior in all environments

PayPal (Braintree) *Chicago, IL*
Software Engineer Intern *June 2019 – August 2019*

- Pair programmed with senior engineers to create a new secrets management system, and built public key infrastructure utilized by almost every service in the organization
- Created tools and tests to automate the process of issuing, signing, and deploying public and private SSL certificates, shortening SSL workflow times by over 90%
- Developed monitoring and reporting for secret expiration, reducing risk of application down-time

Journey Foods *Chicago, IL*
Software Engineer Intern *April 2019 – June 2019*

- Built tools to generate business-critical data visualizations for clients concerning food ingredient statistics
- Created a unified API for accessing nutrition information, generating nutrition labels, and fetching latest news about selected food ingredients

Content Carnivores *Chicago, IL*
Software Engineer Intern *October 2018 – April 2019*

- Led and developed the company's "built-in compliance" feature by researching the regulation of online financial content with SEC/FINRA compliance laws
- Singlehandedly built a web platform to predict future compliance violations by matching input to common violations, previous cases, and relevant laws

Activities

ILC: Entrepreneurship & Technology *Chicago, IL*
President *October 2017 – Present*

- Mentor student groups and teach modules on market research, pitching, and business fundamentals
- Coordinate speakers and manage partnerships with University administration and local startups
- Co-founded a stationery subscription box 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 (March 2018)

University of Chicago *Chicago, IL*
Core Tutor: Computer Science *April 2019 – June 2019*

- Peer tutored over 10 students each week as a University tutor for the Computer Science introductory sequence (Data Structures and Basic Algorithms, Computer Systems)

Other Activities: compileHer, ACM-W, UChicago TechTeam, Facebook ABCS

Skills: Python, C, JavaScript, Java, HTML, CSS, R, Scala, Angular, React, Express.js, Kubernetes, Git
Interests: Distributed Systems, HCI, UI/UX, Cybersecurity, Animation, Painting, Biology, Sustainability