Jiaqi Gao

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Education

The University of Chicago — **Expected June 2021**

BS in Computer Science & BA in Public Policy, Odyssey Scholar (with Full Scholarship)

Relevant Coursework: Honors Intro CS (Haskell), Systems (C), Discrete Math, Algorithms, Mathematics of Machine Learning (Python), Data Visualization (D3), Networks (C)

Stuyvesant High School — **Class of 2017**

Relevant Coursework: AP Comp Sci (**Java, Algorithms, Data Structures**), Software Development (**Python, SQL, Web Dev**)

Skills

Programming: Python, Go, Javascript (React, React Native, Typescript, Angular, D3, Three.js), C, Java, Haskell, Docker, Kubernetes

Data Analysis: R, Stata, Python (NumPy, SciPy)

Design: Adobe Photoshop, AutoCAD, Sketch

Experience

The University of Chicago Booth School of Business — **Jan 2020 – Current**

Head Research Assistant | *Chicago, IL*

- Collect raw data on replication experiments by scraping websites with **Selenium** and **Beautiful Soup**, parsing with **Python**
- Devise effective algorithms to programmatically retrieve amorphous quantitative data with Google Custom Search API

Electronic Arts (EA) — **June 2019 – Sept 2019**

Cloud Software Engineer Intern | *Seattle, WA*

- Developed cost metric pipeline for cloud services utilization to identify, evaluate, and advise on wasteful allocation of resources (e.g. CPU, storage, instances) in **Golang** using **Kubernetes, Prometheus**, **Cortex**, and **Grafana**
- Deployed visualization tool saves thousands of dollars daily by reducing cloud services purchased from third-parties

Pathfinder Software Engineer Intern | *Redwood City, CA* — **June 2018 – Sept 2018**

- Built interactive, real-time 2D and 3D visualizations of EA's player network in **D3** and **Three** in **React with Typescript**
- Wrote **Python** scripts to condense massive datasets into representative datasets for quickly renderable visualizations

Projects/Activities

UChicago TechTeam, **uchicagotechteam.com** — **Jan 2019 – Current**

Co-Chair, TPM + Tech Lead of Chicago Department of Public Health (CDPH) Reporting App | *Chicago, IL*

- Lead leadership team of 13 students in a 70+ members civic engagement student organization dedicated to building digital tools for community organization/local government clients that are creating positive social changes
- Designing a new **cloud development workflow** with **Docker** and **AWS** to streamline development and deployment while reducing repetitive coding across all project groups
- Planned and executed 12-week timeline for developing **React Native** app to improve the CDPH's report system for critical/contagious disease used by Chicago health providers for our client, Chicago's Public Health Chief Medical Officer (app is currently used by CMO and passed off to Chicago Director of Innovation with plans for internal distribution)

psihpbp.org, Phoenix Sustainability Initiative (PSI) — **Sep 2018 – Current**

Project Leader and Webmaster of Hyde Park Business Partnership (subdivsion of PSI) **|** *Chicago, IL*

- Developed environmental impact metric on energy, water, food, and waste production and consumption from research and knowledge from environmental sustainability-related classes at the University of Chicago
- Provide pro bono consultation to local cafés (ongoing clients: True North Café, Medici on 57th, Sanctuary Café) on environmental sustainability by writing individualized strategy proposals and securing partnerships with local composting
- Designed and developed a mobile-friendly website (**HTML, SASS, Javascript**)

Pavan — **Nov 2017 – Mar 2018**

CTO, 3rd in *College New Venture Challenge (CNVC) 2018, Cleantech University Prize Finalist 2018* **|** *Chicago, IL*

- Advised and led technological development of student startup combating air pollution through education, monitoring, and air pollution solutions
- Built web application in **Python Flask** with on demand data reporting and visualization of air quality in user's location