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), Dean's List
Relevant Coursework: Honors Intro CS (**Haskell**), Systems, Discrete Math, Algorithms, Machine Learning, Data Visualization

Stuyvesant High School
Class of 2017

Relevant Coursework: AP Computer Science (**Java, Algorithms, Data Structures**), Software Development
(**Python, SQL, Web Development**)

Skills

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

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

Design: Adobe Photoshop, AutoCAD

Experience

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-party suppliers

Pathfinder Software Engineer Intern | *Redwood City, CA*
June 2018 – Sept 2018
- Built interactive 2D and 3D visualizations of EA's player network in **D3** and **Three** in **React with Typescript**
- Wrote **Python** scripts to condense big data into smaller representative datasets for quickly renderable visualizations

Morgan Stanley
June 2017 – Aug 2017

Information Analyst Summer Intern | *New York, NY*
- Refactored the **user interface** of an in-house configuration management system to **Angular**
- Participated in team code reviews, familiarizing with agile workflow and organization tools like Jira and Bitbucket/Git

Projects/Activities

UChicago Tech Team
Jan 2019 – Current

Co-Chair, TPM + Tech Lead for Chicago Department of Public Health (CDPH) Reporting App | *Chicago, IL*
- Lead leadership team of 13 students in a 70+ student organization dedicated to building digital tools for community organizations and local government programs effecting social change
- 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)
- Led technical development of the app after assembling a 7 student developer/designer team, iterating through many versions after online and user research with Chicago public health workers and direct feedback from CMO

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 real-time data reporting and visualization of air quality in user's location