

Alex Chen

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Education

Yale University, New Haven, CT, Expected May 2023
B.A. Computer Science and Ethics, Politics, & Economics; GPA 3.92/4.0

Work Experience

Digital Services Intern, *NYC Mayor's Office of the CTO*, New York, NY (May 2020 – August 2020)

- Partner with NYC government agencies to design and build digital products connecting millions of New Yorkers to government services
- Plan and develop modular open-source translation pipeline for city agencies, applying Scrum methodology, integrating existing open-source products, designing data architecture, conducting user research, and collaborating with engineering team to accomplish minimal viable product
- Use Adobe InDesign and Illustrator, writing ExtendScript code for automation, to complete project mapping broadband access by congressional district

Enumerator, *U.S. Census Bureau*, College Point, NY (July 2020 – September 2020)

- Collect household and demographic information by canvassing neighborhood residents

App Developer, *Yale Student Technology Collaborative*, New Haven, CT (October 2019 – Present)

- Use Ruby on Rails and React Native to develop web and mobile apps used by thousands in the Yale community, including the campus map, the housing app Vesta, and the attendance app CardSwipr

Activities

Modeling Systemic Inequality Within Police Organizations with an Agent-Based Model

As a [JURIST Digital Scholar](#) and [HASH Fellow](#), conducted research culminating in an agent-based model of police organizations and the communities they serve, emphasizing the difference between “a few bad apples” and actual systemic inequality, exploring the causal role of policy reforms in resolving police brutality.

Yale Emergency Support (YES) — New Haven Pandemic Task Force

Worked with 5-person team to develop emergency pandemic volunteer management and training web app (<http://newhavenhelpwithcovid.com/>) for the City of New Haven, matching 500+ users to volunteer opportunities with city government and 20+ New Haven nonprofits. Offered personalized volunteer training through integration with 3rd-party software and helped expand platform to Athens, Georgia.

Independent Political Science Research

Designed and conducted an independent study applying political typology to Congress using congressional databases. Named Regeneron STS 2019 semifinalist and won NYCSEF First Award and American Psychological Association Award.

Hackathons

Placed top five in YHack 2019 by developing community-building app for mental health with mapping software and augmented reality features. Won Best Computational Hacks in AtomHacks 2018 by analyzing webpages' political biases with natural language processing.

Skills

Web Development: Ruby on Rails, React, Bootstrap
Programming Tools: JavaScript, Java, C#, C
Research and Data: Microsoft Office, SPSS, Tableau