

| | | |
|----------------------------|--|------------------------------------|
| EDUCATION | University of Chicago , Chicago, IL <i>BS, Computer Science Specialization: Data Science</i> Scholarships: <i>University Scholar</i> ◊ <i>Dean's Scholar</i> ◊ <i>National Merit Scholar</i> Relevant Coursework: <i>Software Construction, Data Science for CS, Cryptocurrencies, Algorithms</i> | June 2020 SAT: 1550/1600 |
| PROFESSIONAL EXPERIENCE | Virtru , Washington, DC <i>Software Engineer II</i> | May 2020 – present |
| | <ul style="list-style-type: none"> Migrated front-end Control Center app to Kubernetes, speeding up build and deployment time by 500%. <i>Koa.js, K8s</i> Created websocket server proof-of-concept, reducing extraneous client network requests by 85%. <i>Socket.io, Node.js</i> Transitioned custom component library to one based on Ant Design, increasing number of available components by 175%. <i>antd, React.js</i> Worked on data visualization work inspired by previous efforts like Audit Map. <i>React.js</i> | |
| | <i>Software Engineering Intern</i> | Jun 2019 – Aug 2019 |
| | <ul style="list-style-type: none"> Added new components and fixed bugs in Control Center application. <i>React.js, Node.js</i> | |
| | Chicago Transit Authority , Chicago, IL <i>Data Science Intern</i> | Sep 2019 – Apr 2020 |
| | <ul style="list-style-type: none"> Created a dynamic, color-coded scatter plot of rail stations v.s. arrival times, using color as a function of train punctuality. <i>Vue.js & Python, plotly</i> | |
| AWARDS | 1st place (\$15k) – Virtru Privacy Engineering Challenge (Audit Map project) https://www.virtru.com/blog/privacy-engineering-challenge-winner-2019/ | Nov 2019 |
| | National Merit Scholar , Dean's Scholar, University Scholar | 2014 – 2020 |
| PROJECTS | forcepu.sh | 2021 – present |
| | A momentum trading strategy for bitcoin using hyperdrive and AutoML that executes trades in production every day and reports metrics as compared to the benchmark "buy and hold" strategy. https://forcepu.sh | <i>React.js & Python</i> |
| | hyperdrive (package published on PyPi) | 2020 – present |
| | An algorithmic trading library to store market data, create trading strategies using machine learning, test strategies against historical data, and execute orders. https://github.com/suchak1/hyperdrive | <i>Python</i> |
| | Audit Map | 2019 |
| | 1st place (\$15,000 cash prize) winning entry for Virtru Privacy Engineering Challenge Enables tracking and retroactive revocation of access to encrypted files remotely from map view. https://github.com/suchak1/audit_map | <i>React.js, Mapbox</i> |
| PROGRAMMING EXPERIENCE | <i>Languages: Python, React.js, Node.js, Umi.js, Bash, Java, Racket, C++, C, L^AT_EX</i> <i>Tools: Cloud [AWS], CI/CD [Buildkite, Github Actions], Containerization [Docker, Kubernetes]</i> | |