Krish Suchak

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forcepu.sh

Education

University of Chicago, Chicago, IL — **June 2020**

BS, Computer Science | Minor: Data Science — SAT: 1550/1600

Scholarships: *University Scholar ⋄ Dean's Scholar ⋄ National Merit Scholar*
Relevant Coursework: *Software Construction, Data Science for CS, Cryptocurrencies, Algorithms*

Professional Experience

Virtru, Washington, DC

Software Engineer II — **May 2020 – present**

- Moved Control Center project to Kubernetes, speeding up build and deployment time 5x. *Koa.js, K8s*
- Worked on data visualization work inspired by previous efforts like Audit Map. *React.js*

Software Engineering Intern — **Jun 2019 – Aug 2019**

- Added new components and fixed bugs in front-end Dashboard project. *React.js, Node.js*
- Wrote scripts to automate retries of tests and fetch parameters from AWS SSM. *Bash*
- Fixed customer-facing export client for JSON and CSV data. *Python*

Chicago Transit Authority, Chicago, IL

Data Science Intern — **Sep 2019 – Apr 2020**

- Created a dynamic, color-coded scatter plot of rail stations v.s. arrival times, using color as a function of train punctuality. *Vue.js & Python, plotly*
- Generated automatic rail observations based on database query results. *SQL, Redshift*

Awards

1st place ($15k) – Virtru Privacy Engineering Challenge (**Audit Map** project) — **Nov 2019**
`https://www.virtru.com/blog/privacy-engineering-challenge-winner-2019/`

National Merit Scholar, Dean's Scholar, University Scholar — **2014 – 2020**

Projects

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` *React.js, Mapbox*

hyperdrive (library published on PyPi) — **2020 – present**

Features tools to gather stock and crypto OHLCV / candlestick data and test market strategies.

`https://github.com/suchak1/hyperdrive` *Python*

IntraVideo Search — **2019**

A search engine for video, using image classification and multiprocessing.
Proposed concept, led team of 8, and implemented complete redesign.
Input: source video and search terms Output: relevant clips from source video

`https://github.com/suchak1/intravideo_search` *Python*

Programming Experience

Languages: **Python, React.js, Node.js, Umi.js, Bash**, Java, Racket, C++, C, LaTeX
Tools: Cloud [AWS], CI/CD [Buildkite, Github Actions], Containerization [Docker, Kubernetes]