Christian Sparks

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EDUCATION

University of Illinois at Urbana-Champaign   *Spring 2023*

- B.S. Computer Science; Cumulative GPA: 3.2
- Extracurriculars: ACM at UIUC, OTCR Consulting, Illini Democrats

SKILLS

Languages: Javascript, Go, Java, Python, Rust, C++
Tools: Git, Unix/Linux, Kubernetes, Docker, Pandas, D3.JS, React

EXPERIENCES

Cloudflare, Inc – Software Engineering Intern   *Summer 2020*

- Designed a distributed network diagnostic software in Go which discovers the topology of a customer's network by aggregating traceroute data from over 200 of Cloudflare's edge data centers
- Created a React frontend which enabled customer support staff and enterprise customers to debug elements of their network like routing and GRE tunnels
- Built Kubernetes, Docker, and Teamcity configurations to automate deployment to physical machines

Dunn Solutions Group – Data Analytics & Engineering Intern   *Summer 2019*

- Developed a chatbot prototype with Node.js used for employee training and onboarding; Leveraged Azure LUIS and wrote dialog datasets to train its models
- Designed ETL and database replication jobs with SAP Data Services used for internal time and billing databases to migrate from MSSQL Server 2000

Chicode, NFP – Co-founder, Executive Officer, and Developer   *2017 – 2019*

- Organized events, curricula, and clubs at Chicode for students by establishing a partnership with Chicago Public Schools to expand inclusive computer science education outreach to dozens of Chicago high schools
- Developed static HTML, Elm web apps, and Elixir backends serving over 500 students at Chicode events

Spokin, Inc – QA & Software Development Intern   *Summer 2018*

- Assessed a crowdsourced food review application accessed by 10,000 users via manual QA testing and automated backend testing with Node.js and Elasticsearch
- Supported outreach and growth of a fast-paced startup as an intern by deploying solutions to aid the content team in automating outreach saving multiple days' worth of manual data entry

PROJECT HIGHLIGHTS

Undergraduate Research – Election Forecasting   *Winter 2020 – Present*

- Engaging in research analyzing polling data which are used to model elections
- Visualized prediction data using D3.JS and Javascript (electionanalytics.cs.illinois.edu)

Nvidia 3D Prize Winning Hackathon Project – Star Explorer   *Summer 2018*

- Developed a 3D Three.js web-based visualization of over 120,000 stars in 24 hours with a partner at Hack Chicago
- Utilized k-means clustering to categorize stars by stellar classification