

CHRISTIAN SPARKS

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EDUCATION

University of Illinois at Urbana-Champaign

Spring 2023

- B.S. Computer Science; Cumulative GPA: 3.2

SKILLS

Languages: Javascript, Go, Java, Python, Rust, C++

Tools/Libraries: Git, Unix/Linux, Kubernetes, Docker, Teamcity, Pandas, D3.js, React

EXPERIENCES

Cloudflare, Inc – Software Engineering Intern

Summer 2020

- Shipped distributed network diagnostic software built in Go to discover a customer's network topology by aggregating traceroute data from over 200 of Cloudflare's edge data centers (api.cloudflare.com/#diagnostics-traceroute)
- Designed a React frontend enabling customer support staff and engineers to debug routing, latency, and GRE tunnels in both internal and external networks
- Created and maintained Kubernetes, Docker, and Teamcity configurations to automate deployments of customer-facing production APIs

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 jobs with SAP Data Services used to migrate from legacy databases

OTCR Consulting – Full Time Consultant

Winter 2020 - Present

- Currently aiding in developing the corporate venture capital arm of a public multibillion-dollar healthtech company
- Provided essential employee churn analysis for the technological transformation of a major international fast food chain

ACM at UIUC – Admin Committee Chair

Fall 2020 - Present

- Charged with developing and maintaining essential ACM web infrastructure built in Go and React, which is in use by over 1000 UIUC computer science students
- Responsible for managing general purpose ACM servers and GPU cluster

Chicode, NFP – Co-founder, Executive Officer, and Developer

2017 – 2019

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

PROJECT HIGHLIGHTS

Undergraduate Research – Election Forecasting

Winter 2020 – Present

- Engaging in research analyzing and aggregating polling data to model elections
- Visualized prediction data with D3 and Javascript (electionanalytics.cs.illinois.edu)

HackThis Prize Winning Application – Speechful

Summer 2020

- Built a speech-controlled document writing platform powered by React.js and the Web Speech API for people with disabilities during the HackThis hackathon
- Won runner-up in the Shark Tank Challenge by demoing Speechful and provided a business plan to experienced software engineers and businesspeople