CHRISTIAN SPARKS

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EDUCATION

University of Illinois at Urbana-Champaign   *Spring 2023*

- B.S. Computer Science; Cumulative GPA: 3.5

SKILLS

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

EXPERIENCES

Cloudflare, Inc – Software Engineering Intern   *Summer 2020 & 2021*

- Specced out, implemented, and shipped Deploy Hooks for Cloudflare Pages, a feature highly requested by dozens of current and prospective users: (blog.cloudflare.com/introducing-deploy-hooks-for-cloudflare-pages)
- Shipped vital customer-facing distributed network diagnostic software in a 3-person team of interns (api.cloudflare.com/#diagnostics-traceroute)
- Created a Go application to discover a customer's network topology by aggregating traceroute data from over 200 of Cloudflare's edge data centers
- Designed a React frontend enabling customer support staff and engineers to debug routing, latency, and GRE tunnels in both internal and external networks

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 – New Hire Project Manager & Consultant   *Winter 2020 - Present*

- Led the creation and presentation of multiple market analysis whitepapers for use by a startup providing SaaS to screen-printing companies
- Aided in developing the early-stage corporate venture capital arm of a public multibillion-dollar health tech company
- Provided essential employee churn analysis for the technological transformation of a major international fast food chain

ACM at UIUC – Admin/Infrastructure Committee Chair   *Fall 2020 – Fall 2021*

- Charged with developing and maintaining essential ACM web infrastructure built in Go and React, which is in use by over 1,000 UIUC computer science students
- Responsible for general purpose ACM servers both on-premises and in the cloud

PROJECT HIGHLIGHTS

Undergraduate Research – Election Forecasting   *November 2020 – January 2021*

- 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