CHRISTIAN SPARKS

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EDUCATION

University of Illinois at Urbana-Champaign   *Spring 2023*
- B.S. Computer Science; College GPA: 3.44

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)

SKILLS

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

EXPERIENCES

Meta (Facebook), Inc – Software Engineering Intern   *Summer 2022*
- Improved the dev experience for ad metrics, enabling developers to ship metrics that drive Meta's advertising revenue and provide key insights to external advertisers
- Led the development of permissions management for metric developer tools, minimizing the risk of SEVs (bugs & outages) on revenue-critical advertising metrics

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

STUDENT ORGANIZATIONS

OTCR Consulting – Project Manager & Consultant   *Winter 2020 - Present*
- Led a project providing key venture capital and business development research for a public multibillion-dollar health tech company
- Led the creation and presentation of multiple market analysis whitepapers for use by a startup providing SaaS to screen-printing companies
- 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 – Present*
- 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