Cailyn Hansen

Be Bold, Take Risks, Make Change

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Software developer exploring the intersection of technology, social good, and human-centered services. Experience partnering with government agencies. Substantial engineering experience with legacy and modern systems. Background in data science and artificial intelligence. Insatiable desire to learn and grow.

Education

Computer Science, B.A. and Ethnic Studies, B.A. | Brown University   Sept. 2015 – May 2019
Select Courses: Artificial Intelligence, Leadership in Organizations, Public Policy, Theory of Computation

Experience

Senior Software Engineer | *Ridwell*   Aug. 2021 – Present
Software Engineer   Aug. 2020 – Aug. 2021
- Design technical interview problems and interview candidates for junior, full-stack, and senior roles
- Lead project to migrate infrastructure from Heroku and AWS ElasticBeanstalk to AWS Fargate with AWS CDK
- Draft and iterate on RFCs and architectural design documents

Software and Data Engineer | *Skylight Digital*   Jul. 2019 – Aug. 2020
- Write ETLs in SQL and Python for the processing and de-duplication of 70,000 child enrollment records
- Manage AWS, Docker, and Azure DevOps cloud infrastructure for data integration and de-duplication system
- Implement .NET Core and React Typescript application to replace legacy data collection interface
- Rapidly prototype and develop Node.js and React TypeScript application for file upload data collection

Software Development Consultant | *Center for Digital Scholarship*   Feb. 2017 – Jan. 2018, May 2019 – July 2019
- Manage the design and development life-cycle for three faculty and staff projects
- Produce project road maps, write user stories, and draft timelines to ensure consistent delivery

Software Engineer Intern | *Facebook*   May 2018 – Aug. 2018
- Restructure testing framework resulting in 11% performance boost across team test suite
- Implement new feature for trans and non-binary users with estimated 55,000 adopting users
- Develop improved notifications infrastructure for internal tool using GraphQL, React, and Hack (Typed-PHP)

Software Engineer and Researcher | *Mapping Violence Project, Brown University*   Apr. 2016 – Jun. 2017
- Lead technical team in the development of semi-structured data collection and visualization applications
- Perform system administration on Linux servers and test and deploy software using Docker containers
- Design and implement custom date format to handle ambiguity and imprecision in archival research

Select Fellowships and Projects

NYC[x] Innovation Fellowship | NYC Mayor's Office of the CTO   Aug. 2021 – Oct. 2021
- *Involvement subject to an active NDA | Participation details available upon request*

Borders and Othering: (De)Constructing Maps | http://bordersandothering.org   Jan. 2019 – Present
- Produce first-ever vector data file for territorial control over time of North America using ArcGIS and QGIS
- Design and curate public-driven web interface to highlight social othering via mapping

Leadership Experience

Director of Community Accountability | *Alpha Delta Phi Society National Organization*   Jun. 2020 – Present
- Draft a comprehensive framework inspired by restorative justice for responding to community harms
- Lead team of 5 in the implementation of the community harm response framework and train undergraduates

Diversity, Equity, and Inclusion Group Co-Facilitator | *Skylight Digital*   Aug. 2019 – Aug. 2020
- Lead teams in the implementation of performance management and diversity, equity, and inclusion practices
- Collaborate on the organization of company-wide trainings and plan monthly reading group

Skills

Technical: JavaScript/TypeScript, Python, Java, React/Redux, C#, PHP, HTML/CSS, Data analysis, Docker, Nginx, Git, GIS, SQL, .NET Core, GraphQL, NoSQL and MongoDB, Systems administration
Writing: Project specifications and timelines, grants proposals, policy memos, strategic reports, documentation