

Bryan Witherspoon

uoodsq.github.io

Bryan Witherspoon is a **software engineer** with over fifteen years of professional experience designing, building and delivering web applications.

Employment

GitHub <<https://gh.io/uoodsq>>

Staff Software Engineer - Cloud and Enterprise Security
January, 2022 - present

Summary

At GitHub, I was part of the Cloud and Enterprise Security team, responsible for developing and maintaining security automations that protect the company.

Accomplishments

- Designed and developed a platform for conducting internal security communication campaigns.
- Developed a proof-of-concept for the Cloud Security team for automatically tagging resources in AWS with the user or role that created it.

DataGrail <<https://datagrail.io>>

Senior Software Engineer
December, 2020 - December, 2021

Summary

At DataGrail, I developed several key features for the company's growing Data Privacy Platform.

Accomplishments

- Developed key functionality allowing the service to be sold into enterprise markets.
- Implemented tools and processes for reviewing changes in a live environment before deploying to production.

Duo Security <<https://duosecurity.com>>, part of **Cisco Systems** <<https://cisco.com>>

Technical Lead - Site Reliability Engineering
April, 2014 - December, 2020

Summary

While at Duo, which was acquired by Cisco in 2018, I've grown from a frontend web developer into my current role as a Technical Lead in Site Reliability Engineering.

I've developed a handful of key features for Duo's core authentication service. I've led the design and implementation of a data pipeline service, a project which emphasized performance, scale, reliability, automation, and security. I was a Technical Lead in Site Reliability Engineering for ~2 years where I planned and implemented internal tools to accelerate the delivery of our software into our customers' hands.

Accomplishments

- Implemented internal tools and processes to reduce time to deliver code changes to production.
- Served in regular on-call rotations to ensure service uptime.
- Designed and built a data pipeline service to store customer authentication data and generate near real-time reports.
- Led visual redesign project of product's administrative interface.
- Implemented many key features of the company's flagship product.
- Designed and built an internal dashboard for displaying business metrics.
- Continuously improved HTML, CSS and JavaScript coding standards and product's build pipeline.
- Screened and interviewed software engineer and engineering management candidates.

Digital Roots <<https://digitalroots.com>>

Software Engineer
June, 2013 - April, 2014

Summary

Responsible for designing and developing web-based user interfaces for social media engagement and reporting platform.

Accomplishments

- Designed and developed abstract reporting tool used for visualizing performance metrics.
- Built a social media command center used for data exploration by social media teams.
- Built an application for tracking performance of data processing pipeline.
- Co-organized local Ember.js meetup group.

Arbor Networks <<https://arbornetworks.com>>

Software Engineer

June, 2011 - June, 2013

Summary

Responsible for designing and developing web-based user interfaces for distributed network security solutions.

Accomplishments

- Successfully launched initial version, major release, and several minor releases of network security application.
- Spoke to 85+ person engineering team on the topic of migrating from image-based graphs to SVG.
- Submitted patent application for the automatic transformation of selected text into regular expression.
- Led small to medium-sized groups in user interface design sessions.
- Participated in cross-functional user experience team.

Consumers Energy <<https://consumersenergy.com>>

Engineer

January, 2009 - June, 2011

Accomplishments

- Designed and developed lightweight web interface for managing electronic switchgear.
- Built and programmed a wireless interface between a Roomba <<https://www.irobot.com/us/>> and an electric meter to alter cleaning schedules based on the current price of electricity.

The State News <<https://statenews.com>>

Creative Director

June, 2006 - January, 2009

Accomplishments

- Successfully launched two major redesigns of the company's main websites and numerous internal web applications.
 - Supported nightly production efforts by proofreading and formatting content for web.
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Proficiencies

Software engineering practices

- Web application development
 - Built production services in Python and Ruby on Rails
 - Built services on top of data stores like PostgreSQL, MySQL, Redis, Elasticsearch and Kafka.
 - Deployed services on AWS
 - Development lifecycle
 - Agile development
 - Version control (Git)
 - Code review
 - Continuous integration and automated testing
 - Production automation (Ansible)
 - Monitoring and alerting
 - User interface
 - In previous roles, have done UI design and development
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Education

Michigan State University

More

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[Github](https://gh.io/uoodsq) <https://gh.io/uoodsq>

[Mastodon](https://a2mi.social/@uoodsq) <https://a2mi.social/@uoodsq>

[LinkedIn](https://www.linkedin.com/pub/bryan-wITHERSPoon/14/470/a19/) <https://www.linkedin.com/pub/bryan-wITHERSPoon/14/470/a19/>