

Bryan Witherspoon

uoodsq.github.io

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

Employment

GitHub <<https://github.com>>

Staff Software Engineer

January, 2022 - May, 2025

Summary

At GitHub, I initially joined the Enterprise Security team, responsible for developing and maintaining security automations that protect the company. I later transitioned to the Copilot Core Experiences team, focusing on core user experiences and quality improvements for GitHub Copilot.

Accomplishments

- Led the development of key features for GitHub Copilot's core user experience.
- Pioneered a novel approach to measure Copilot's response quality using LLM evaluation against real customer conversations.
- 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

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

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

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

Creative Director

June, 2006 - January, 2009

Proficiencies

Languages & Frameworks

- Programming Languages
 - Go, Python, JavaScript/TypeScript, Ruby
- Web Development
 - Ruby on Rails, React, Node.js

Infrastructure & Cloud

- Cloud Platforms
 - AWS, Azure
- Infrastructure as Code
 - Terraform, Ansible, Docker
- Data Stores
 - PostgreSQL, MySQL, Redis, Elasticsearch, Kafka

Development Practices

- Software Development
 - Agile development methodologies
 - Version control (Git)
 - Code review and pair programming
 - Test-driven development
- DevOps & Automation
 - Continuous integration/deployment (CI/CD)
 - Automated testing (Pytest, Jest)
 - Infrastructure automation

Monitoring & Observability

- Tools & Platforms
 - Splunk, DataDog, Sentry
 - Logging and metrics collection
 - Performance monitoring and optimization

AI & Machine Learning

- Technologies & Practices
 - Large Language Models (LLMs)
 - AI evaluation and quality metrics

Education

Michigan State University

Bachelor of Science, Electrical Engineering

December, 2008

More

[Email](mailto:b@spoon.id) <<mailto:b@spoon.id>>

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

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