

# Bryan Witherspoon

[uoodsq.github.io](https://uoodsq.github.io)

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

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## 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

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## **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

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## **Education**

### **Michigan State University**

Bachelor of Science, Electrical Engineering  
December, 2008

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## **More**

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LinkedIn <<https://www.linkedin.com/in/uoodsq/>>