

Zach Brogan

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EXPERIENCE

Capital One | *Senior Software Engineer* Plano, TX | **Apr 2024 - Present**

- Build and maintain services in Java for an external event gateway system used to receive and enrich financial event data.

Qualtrics | *Software Engineer* Provo, UT | **Feb 2019 - Mar 2024**

- Developed a frontend infrastructure platform that serves millions of customers. The platform is used by engineering teams across 150+ projects to develop, build, preview, and ship applications more quickly. Built with Go, JavaScript, Postgres, AWS S3, and various CI/CD integrations.
- Created a React + TypeScript component library used by over 600 projects in order to accelerate developer productivity and meet accessibility requirements: designsystem.qualtrics.com.
- Established localization best practices and maintained translation tooling used by 700+ projects in 80 languages.

SpotterRF | *Software Engineer* Orem, UT | **May 2018 - Feb 2019**

- Implemented features and fixes for a Linux-based surveillance radar system using Golang, AngularJS, and Postgres.
- Wrote drivers in Python to integrate security cameras into the radar tracking software with pan-tilt-zoom control.

Brigham Young University | *Research Assistant* Provo, UT | **Oct 2016 - Apr 2018**

- Designed a smart thermostat with microcontrollers, custom circuitry, C, JavaScript, and Python AWS Lambda functions.

Digi International | *Software Engineering Intern* Lindon, UT | **May 2017 - Sep 2017**

- Contributed to firmware development of Zigbee radios by implementing features in C.

EDUCATION

Brigham Young University | *BS in Computer Engineering* Provo, UT | **Apr 2018**

Computer Science Minor

GPA: 3.93/4.0

PROJECTS

Backtick | backtick.zachbrogan.com 2022 - 2023

A Chrome extension that enables writing inline code snippets within Google docs.

Sleep Sensor Lamp | github.com/zbrogz/sleep_sensor 2018

A bedside lamp that automatically detects sleep using a radar sensor and actigraphy algorithm implemented in Python.

Bluetooth Keyless Entry | devpost.com/ZachBrogan 2017

A system for unlocking my car using an Arduino 101 and companion iOS app.

ACHIEVEMENTS

BYU IEEE Secretary Provo, UT | **Feb 2017 - Jan 2018**

Volunteer Representative São Paulo, Brazil | **Sep 2013 - Aug 2015**

SKILLS

Java • Golang • React • JavaScript • TypeScript • Node.js • Python • DynamoDB • PostgreSQL • AWS
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