ZACH BROGAN

zachbrogan@gmail.com | 952-855-2220 | linkedin.com/in/zachbrogan

WORK EXPERIENCE

CAPITAL ONE — Plano, TX
Senior Software Engineer — Apr 2024 – Present
- Build and maintain an event gateway system used to receive, process, and enrich sales lead data for millions of customers in Dealer Navigator, a digital tool for car dealerships.

QUALTRICS — Provo, UT
Software Engineer — Feb 2019 – Mar 2024
- Developed a frontend infrastructure platform, empowering engineering teams across 150+ projects to build, preview, and deploy applications. Built with Go, JavaScript, Postgres, S3, and various pipeline integrations.
- Created a React + TypeScript component library adopted 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.

SPOTTER GLOBAL — Orem, UT
Software Engineer — May 2018 – Feb 2019
- Implemented features and fixes for a Linux-based surveillance radar system using Golang, C, AngularJS, and Postgres.
- Wrote drivers in Python to integrate security cameras into radar tracking software with pan-tilt-zoom control.

BRIGHAM YOUNG UNIVERSITY — Provo, UT
Research Assistant — Oct 2016 – Apr 2018
- Designed a smart thermostat with microcontrollers, custom circuitry, C, JavaScript, and Python AWS Lambda functions.

DIGI INTERNATIONAL — Lindon, UT
Software Engineering Intern — May 2017 – Sep 2017
- Contributed to firmware development of Zigbee radios by implementing features in C and chip verification in Python.

EDUCATION

BRIGHAM YOUNG UNIVERSITY — Provo, UT
Bachelor of Science in Computer Engineering — Apr 2018
Minor in Computer Science
GPA: 3.93/4.0

PROJECTS

BACKTICK — 2022 – 2023
A Chrome extension that enables writing inline code snippets within Google docs: backtick.zachbrogan.com.

SLEEP SENSOR LAMP — 2018
A bedside lamp that detects sleep using a radar sensor and actigraphy algorithm implemented in Python.

BLUETOOTH KEYLESS ENTRY — 2017
A system for unlocking my car using an Arduino and companion iOS app: devpost.com/ZachBrogan.

ACHIEVEMENTS

AWS Certified Solutions Architect - Associate — Jan 2025
IEEE Secretary at BYU — Feb 2017 – Jan 2018
Nonprofit Volunteer Representative in São Paulo, Brazil — Sep 2013 – Aug 2015

SKILLS

Programming Languages: Golang, JavaScript, TypeScript, Java, Python, HTML, CSS
Technologies: React, Spring, Docker, Git, Jenkins, Splunk, PostgreSQL, AWS (ECS, SQS, SNS, S3, DynamoDB, Lambda)