

Zachary Richardson

zjrichardson2@gmail.com ♦ (937)241-9476 ♦ Springboro, OH ♦ <https://richardson227.github.io>

Skilled engineer with success across a variety of roles, looking to use a passion for data and relevant previous experience to continue that success in the data analytics space. Let's work together to use data to tell your story.

WORK EXPERIENCE

Tata Consultancy Services

June 2019 - May 2022

Team Lead - Production Support - IoT Client

Jan 2021 - May 2022

- Leader of a six person team, providing production support on an IoT telematics platform for an equipment rental company, comprising 150,000+ reporting telematic assets and 3,500+ internal users.
- Analysis of live large-scale telematic data, using SQL to filter data, identify anomalies, and make adjustments to the data ingestion process.
- Extensive use of Excel pivot tables and lookups to identify gaps in data ingestion across 20+ telematic data providers.
- Use of Javascript programming language to resolve issues in the production environment and develop new features, with the team resolving 100+ issues and improving system performance by more than 10%.
- Leadership responsibilities included developing project timelines, establishing priority of development items, designing solutions, creating documentation, and presenting weekly project status reports to client leadership.

Software Engineer - IoT "Bringing Things to Life" Lab

June 2019 - Jan 2021

- Member of a small team developing, configuring, and demoing IoT solutions for domestic and international clients in TCS's premiere North American IoT Lab.
- Presented IoT solutions to several high-profile clients, partners, and potential customers, leading to key partnerships for the TCS IoT group.
- Created interactive data dashboard for a community-initiative Smart Garden POC using React, JS, NodeJS, AWS, DynamoDB on a Raspberry Pi with ESP32 microcontrollers and connected sensors.
- Developed core curriculum for IoT learning program for goIT, TCS's flagship STEM education program, with more than 100,000+ past participating students worldwide.

Software Engineering Intern

May - July 2018

- Used React Native framework with JavaScript to create and deploy an internal mobile application.
- Employed Agile framework and Git version control to track and coordinate work among team members.

Hobart Weigh Wrap

Software Engineering Intern

June - Aug 2017

- Using Python, created an API capable of controlling motors and sensors to introduce remote, closed-loop automation for testing of Weigh Wrap scales.

PROJECTS

Fitness Tracker Analysis

Aug 2023

Followed the data analysis life cycle to prepare, process and analyze fitness-device data using SQL. Formulated business recommendations and shared findings in the form of a markdown analysis write-up, powerpoint, and Tableau dashboard.

World Trip Statistical Analysis

July 2023

Created comprehensive dashboards in both Tableau and Excel, demonstrating a statistical breakdown of my world trip from May 2022 - June 2023, using an aggregation of self-gathered data from my phone and web applications.

EDUCATION

Wright State University

Aug 2015 - May 2019

BS Computer Engineering

- Completed courses in Statistics, Differential Equations, and Calculus I & II.

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:** Google Data Analytics Professional Certificate
- **Skills:** SQL, Python, Tableau, Excel, Microsoft Office Tools, Thingworx PTC, Javascript, React
- **Interests:** Hiking, Soccer, Football, Travel, Spanish, Nonfiction Books, Movies, Art
 - Spent May 2022 - Aug 2023 on sabbatical, traveling around the world, before starting data analytics transition.