

Zachary Richardson

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Skilled engineer with success across a variety of roles, looking to use his passion for data and relevant previous experience to transition into the data analytics space.

WORK EXPERIENCE

Tata Consultancy Services

June 2019 - May 2022

Production Support Team Lead - 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.
- Utilized SQL programming language to identify data anomalies and work with the development team to make adjustments to data ingestion process, resolving 100+ raised production issues.
- Extensive use of Excel pivot tables and lookups to identify gaps in data ingestion across 20+ telematic data providers.
- Used Javascript programming language to resolve issues in the production environment and develop new features.
- Assisted in 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.
- Worked on a community-initiative Smart Garden POC using React, JS, NodeJS, AWS, DynamoDB on Raspberry Pi with ESP32 microcontrollers and connected sensors. Created React dashboard displaying relevant sensor information.
- Developed core curriculum for IoT learning program of goIT - TCS 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 of the testing of Weigh Wrap scales.

PROJECTS

Google Analytics Capstone Project

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

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

EDUCATION

Wright State University

Aug 2015 - May 2019

BS Computer Engineering

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 a sabbatical, solo traveling around the world to 25 different countries across Asia, Europe, and South America.