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. Let's work together to use data to tell your story.

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.