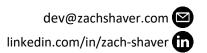


Zach Shaver



EMPLOYMENT

Software Developer T&T Power Group Mar 2020 – Present

- Designed and implemented a full-stack (Python/Postgres/React) solution for remote monitoring of power generators over MODBUS TCP/IP.
- Developed and maintained an internal ERP system (Python/XML/JavaScript). A few key accomplishments included:
 - o Implemented business critical, unit tested, features like service scheduling which reduced service management workload by as much as **80%** and timesheet management.
 - Successfully migrated codebase and production database to next major version of Odoo with 0 data loss.
- Built and managed development operations across projects, such as regular back-ups and CI/CD via Jenkins.

Full-stack Software Developer

Eramosa Engineering

Jan 2019 - Mar 2020

- Developed Portlet/Servlet (JSP/jQuery) web applications for a mature enterprise SCADA reporting and data visualization/processing software, with back-end REST services written in Java (Jersey JAX-RS/JAXB/Tomcat).
- Created and regularly delivered 2 iOS/Android business applications built with React-Native:
 - a mobile companion to the above-mentioned legacy SCADA reporting system,
 - and a customer commissioned work reporting app, adopted by over 100 workers within the first month.
- Leveraged Gradle to reduce build times by **87%**, and optimized the stack through algorithm analysis, reducing IO and use of concurrent/asynchronous programming.
- Introduced agile methods such as code review, continuous integration/deployment, and test-driven development.

Head Tracking Developer Intern

Revision Military

Jun 2018 - Aug 2018

- Independently developed a black-box sensor fusion testing platform for the test-driven development of a helmet's sensor fusion algorithms, consisting of:
 - o a robot arm (Python), a native Android application and desktop application (JavaFX).

Software Test Developer Intern

GE Digital

May 2017 - Dec 2017

- Wrote, revised and automated behavior-driven development (BDD) test cases for a network security device with Selenium.
- Worked across teams, using agile methodologies, to ensure timely and complete testing for regular product releases.
- Improved stability of test framework, resulting in an over 80% decrease in bugs and defects within the first 3 months.
- Decreased total testing run time by 50% through parallelization of test suite runs.

EDUCATION

Bachelor of Computer Science (4.0 GPA)

University of Windsor

Graduated 2018

Business Administration

Humber College

Graduated 2015

PROJECTS

- zachshaver.com. My portfolio, built with React and Typescript.
- Indepocket. A collaborative task list manager for mobile, built with React-Native and Firebase.
- react-native-midi & Midio. A midi driver & a mobile application that uses it to connect midi controllers and play sounds.
- Juzahach. An Internet-of-Things system for tracking vehicles. Android trackers, a Node.js REST server and React web app.

ADDITIONAL EXPERIENCE & AWARDS

2016 – 2018	Computer Science Teaching Assistant, University of Windsor. Assisted in teaching various computer science
	courses to students over 5 semesters. Grading, lessons, office hours, and small lectures.

- 2016 2019 Dean's List and President's Honour Roll, Faculty of Science, University of Windsor
- 2016 2017 Highest GPA in B.CS Program, University of Windsor
 - 2016 Golden Key International Honour Society

TECHNOLOGIES

Languages Java, Python, Typescript, Javascript, Bash, HTML, CSS, & JSP. Experience with Assembly, C, C# & C++.

Databases Postgres, MySQL, Realm, SQLite, & Neo4j. Experience with SQL Server.

Libraries React, React-Native, Redux, Pytest, AsynclO, jQuery, Express, Jest, & styled-components.

Tools NodeJS, npm, Jenkins, Docker, Gradle, AWS, Swagger, nginx, Selenium, Cucumber & Tomcat.

Frameworks Android, Odoo, Liferay, Firebase, iOS, & JavaFX. Experience with Qt.

Development Skills Full-stack, DevOps, Agile, Concurrency, Algorithms, Testing (TDD/BDD), Microservices, REST, & VPN.