zachshaver.com
github.com/shavashav

Zach Shaver

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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:
  - 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:
  - 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, AsyncIO, 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.