

Zach Shaver

Software Developer

Education

- 2018 **Bachelor of Computer Science (Honours)**
University of Windsor, Windsor, ON
- ✓ Major Avg: **93%**
 - ✓ Led several software development projects including
 - a social media network built using an **Express REST API** server - with a **Neo4J** graph database and ORM - and a **React** front end,
 - an **Internet-of-Things** system for tracking vehicles consisting of Android devices, a **Node.js** REST server and React web app.
 - a Java/**Swing**-based desktop email client,
 - a Java-based web-scraping twitter bot
- 2013 **Business Administration**
Humber College, Toronto, ON

Experience

- Jan 2019 to Present **Full-stack Software Developer**
Eramosa Engineering, Guelph, ON
- Worked with a small team to develop, test, and deliver a mature enterprise software product, along with other custom web and mobile applications.
- ✓ Developed **Portlet** and **Servlet** web applications for SCADA reporting and data visualization/processing, using **JSP, CSS, Javascript (jQuery)**, Java, and BIRT.
 - ✓ Developed back end **REST** services in **Java (Jersey JAX-RS /JAXB/Tomcat)** for processing, transforming and serving large amounts of data from SCADA historian and SQL database servers.
 - ✓ **Optimized** areas of the stack through algorithm analysis, reducing IO (network/database), and use of **concurrent/async programming**.
 - ✓ Leveraged **Gradle** to **reduce build times by 87%**.
 - ✓ Developed and maintained **continuous integration (CI)** and **delivery (CD)** pipelines with **Jenkins** to **increase** development speed, **decrease** the total amount of bugs, and **automate** the delivery of software.
 - ✓ Introduced **agile** methodology (such as code review, user stories and **test-driven development (TDD)**), and source control branching policies to promote team collaboration, define better requirements and increase overall quality.
 - ✓ Designed, implemented, and continuously delivered 2 iOS/Android business applications using **React-Native**, one commissioned for a remote customer which was adopted by **~100 workers within the first month**.
 - ✓ Designed database systems for **MySQL, PostgresSQL**, and **RealmDB**
- June 2018 to Aug. 2018 **Head Tracking Application Developer Intern**
Revision Military, Montreal, QC
- Developed an automated testing system for a smart-helmet's development.

Personal Info

Phone:
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Email:
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Social Media

GitHub:
<https://github.com/ShavaShav>

LinkedIn:
[linkedin.com/in/zach-shaver](https://www.linkedin.com/in/zach-shaver)

Languages

Javascript ★★★★★

Java ★★★★★

SQL ★★★★★

Shell ★★★★★

C ★★★★★

Python ★★★★★

Frameworks/Tools

React (React-Native) ★★★★★

Node ★★★★★

Atlassian Suite (JIRA, Confluence, etc) ★★★★★

Selenium ★★★★★

Jenkins ★★★★★

Android ★★★★★

- ✓ Designed, documented and presented a **black-box** sensor fusion testing framework to a remote manager, for use in guiding development of the helmet's sensor fusion algorithms.
- ✓ Programmed a **robotic arm with Python**, to actuate the helmet.
- ✓ Developed an **Android application**, to mock the helmet's sensor fusion system.
- ✓ Developed a user-friendly **JavaFX** desktop application to implement the framework - interfacing with the robot arm and mock-helmet, charting sensors, and producing quantifiable scores - enabling engineers to iterate on their designs with confidence.

May 2017
to
Dec. 2017

Software Test Developer Intern

GE Digital, Vancouver, ON

Developed end-to-end integration testing for a network security device, as part of a 7-person QA team.

- ✓ Wrote and revised **behavior-driven development (BDD) test cases** and documentation.
- ✓ Automated test cases with Node.js on virtual and hardware platforms.
- ✓ Improved stability of test framework by solving many long-standing bugs. **Framework bugs decreased by over 80%** within first 3 months, allowing the team to focus on test development.
- ✓ Designed and **developed a test utility** for making efficient assertions on large amounts of UI text data, decreasing the total test-run time.
- ✓ Discovered several critical software bugs and produced issue reports, allowing developers to quickly produce patches.
- ✓ Worked with development, business, and QA teams, using **agile and scrum methodologies**, to ensure timely and complete testing for multiple major product releases.
- ✓ Independently developed and implemented a new test plan and **continuous integration** strategy for a new secure embedded OS.
- ✓ **Decreased test run time by 50%** by running suites in parallel.

May 2016
to
Dec. 2018

Teaching Assistant

University of Windsor, Windsor, ON

Provided teaching assistance over **five semesters** in Mobile Application Development, Software Development, Object-Oriented Programming Using Java, Computer Architecture, and Social Media & Mobile Technology.

- ✓ Assisted in instructing lab sessions and helping students to understand course material.
- ✓ Prepared and presented small lectures for special topics like **Git**.
- ✓ Graded student assignments and tests, and proctored exams.
- ✓ Regularly hosted office hours for when students needed assistance.

Awards

2016-19	Dean's List and President's Honour Roll, <i>Faculty of Science, University of Windsor</i>
2016-17	Highest GPA in B.CS Program, <i>University of Windsor</i>
2016	Golden Key International Honour Society

Technical Skills

Mobile Development	★★★★★
DevOps (CI/CD)	★★★★★
Web Development	★★★★★
Databases	★★★★★
Algorithms	★★★★★
Networking	★★★★★

People Skills

Leadership	★★★★★
Accountability	★★★★★
Creativity	★★★★★
Teamwork	★★★★★
Adaptability	★★★★★
Empathy	★★★★★