

Shahab Zafar

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SUMMARY

Versatile software engineering graduate with hands-on experience in QA testing, front-end development, and full-stack web applications. Proficient in designing scalable, reusable components, improving user experience, and contributing to agile teams. Skilled at translating business needs into technical solutions and quick to adapt to new technologies and environments.

EDUCATION

Ontario Tech University

Sep 2019 – May 2025

Bachelor of Software Engineering Co-op (Honours)

Relevant Courses: **Web Programming** | **Database Management** | **Software Project Management** | **Distributed Systems** | **Data Structures and Algorithms** | **Mobile Applications Development** | **Operating Systems** | **Cloud Computing**

TECHNICAL SKILLS

Programming: JavaScript, Python, Java, Solidity

Frameworks/Tools: Node.js, Express.js, React, Ganache, Truffle, Web3.js, JUnit, Maven, jQuery

Databases: MySQL, PostgreSQL, NoSQL

Cloud Platforms: GCP, AWS

Other Technologies: HTML, CSS, Git, Docker, Kubernetes, Microsoft Office, AODA Testing, Dynamics, API Dev, Linux

PROJECTS

AI Realtor Web Application | *Node.js, React, PostgreSQL, HTML/CSS, Figma, Zapier* | [Repository](#)

Sep 2024 - Apr 2025

- Collaborated with a team of four to address challenges in the real estate market by developing an AI-assisted Realtor platform, focusing on lead generation and streamlining property listing.
- Led the design and implementation of the UI/UX for the platform using React and JavaScript, while integrating backend functionalities with Node.js to ensure seamless data flow and user interactions.
- Built automation flows with Zapier and integrated backend functionality via Node.js and PostgreSQL, to enhance operational efficiency and create a scalable solution for buyers and sellers.

Blockchain E-Voting System | *Node.js, React, PostgreSQL, Solidity, Truffle, Ganache* | [Repository](#)

Sep 2024 - Dec 2024

- Designed and developed a secure Blockchain-based E-Voting System using Node.js, React, Solidity, Ganache, and Truffle, ensuring transparency and immutability of voting records.
- Integrated smart contracts with a dynamic front-end using Web3.js, providing a user-friendly interface for seamless voter interaction and real-time results display.
- Implemented end-to-end development and testing, simulating decentralized environments with Ganache and achieving comprehensive functionality for secure and tamper-proof voting.

Search Algorithm - Barcode Reader | *Data Structures, Python* | [Repository](#)

Jan 2022 – Dec 2022

- Collaborated with a team of four on solving a real-world problem related to barcodes, which included designing, implementation, testing, and complexity analysis.
- Led the team to analyze the problem at hand to identify/design an optimal data structure based on requirements of problem and corresponding operations.
- Successfully developed a search algorithm using Python that compared barcodes of hundred different images with each other that achieved over 80% accuracy through iterative testing, analysis, and evaluation of search precision.

WORK EXPERIENCE

Quality Assurance Analyst - Ontario Public Service (Toronto, ON)

Aug 2023 – Aug 2024

- Spearheaded QA testing efforts for two federally mandated web applications (ODMS, WHIMS), designing and executing detailed test plans using Azure DevOps; identified critical production issues in Microsoft Dynamics workflows, leading to timely deployment of secure patches prior to go-live.
- Conducted large-scale data validation and migration using advanced SQL queries, collaborating with database administrators to ensure 100% accuracy of transactional records transferred from legacy systems such as Parklane to modern cloud-based platforms.
- Facilitated cross-functional communication in Agile Scrum teams by reporting sprint progress and risks; onboarded and trained new interns and business testers, while also supporting AODA compliance reviews for enhanced accessibility in public-facing government applications.

Social Media Moderator – Majorel (Waterloo, ON)

June 2022 – Sep 2022

- Reviewed and flagged user-generated content through internal moderation tools, consistently maintaining 98% compliance with platform standards while ensuring accuracy and adherence to real-time content guidelines. Assisted new employees in learning the software and successfully completing the tasks as required by the company.
- Supported onboarding of new team members by providing hands-on training in proprietary software tools; collaborated in cross-functional meetings to troubleshoot system issues and enhance process efficiency.