**Zeyu Shao**

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**Professional Summary**

Recent Software Engineering graduate from the University of Ottawa with a strong academic background and hands-on co-op experience building scalable full-stack applications. Proficient in Java, JavaScript, and Python with a solid grasp of data structures, algorithms, and object-oriented design. Completed impactful internships in QA, back-end, and full-stack roles across both public and private sector teams. Passionate about enterprise software and eager to contribute to mission-driven products in a fast-paced, collaborative engineering environment.

**Education**

**University of Ottawa Sept. 2020 – Aug. 2025**

* BASc Software Engineering (GPA 9.18)

**Experience**

**Knak – Full Stack Developer (Co-op) May 2023 – Dec. 2023**

* Built enterprise-grade web features for a SaaS marketing platform using Vue, Laravel, and SQL.
* Developed a CDN usage analytics dashboard with dynamic charts and time-based filters, enabling improved performance visibility for customers.
* Integrated AWS Athena and Lambda to collect and process cloud data into SQL tables.
* Practiced Agile development and participated in design discussions and team retrospectives.

**Solace – QA Engineer (Co-op) Sept. 2022 – Dec. 2022**

* Wrote automated test suites in TCL and Linux Shell to validate message broker APIs and real-time systems.
* Updated 30+ legacy test scripts to support new API versions, improving software quality assurance coverage.
* Gained experience working with enterprise software infrastructure and large-scale releases.

**FINTRAC – Software Developer (Co-op) Feb. 2022 – Apr. 2022**

* Co-developed a full-stack web application using Node.js, Express, MongoDB, and Vue 3.
* Designed and implemented RESTful APIs for generating financial data and managing report workflows.
* Replaced Vuex with Pinia for improved frontend state management.

**Projects**

**Club Website Platform Sept. 2024 – Present**

* Built a secure and scalable content management system using MongoDB, Express, Vue + TS, and Node.js.
* Integrated role-based authentication, dynamic AWS S3 uploads, a CI/CD pipeline with GitHub Actions, and client-server communication with RESTful APIs.
* Delivered a production-ready system with a clean, modular design used by non-technical staff.

**Key Skills**

Languages/Frameworks: Java, Python, JS, TS, C#, SQL, Vue, Express, Laravel, Node, Cypress, Jest

Concepts: Data Structures, Algorithms, OOP, REST APIs, Relational DB, Agile/Scrum, CI/CD, RTOS

Tools: Git, GitHub Actions, Jira, AWS, Docker, Selenium

Soft Skills: Communication, Team Collaboration, Problem Solving, Critical Thinking, Fast Learner