**Zeyu Shao**

530 Anchor Circle, Ottawa, ON K4M 0X5

Phone: (343)-777-3529 E-mail: zeyu.shao@hotmail.com

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**Professional Summary**

Experienced Software Developer with a strong academic background in Software Engineering and hands-on co-op experience building scalable applications. Proficient in Java, JavaScript, TypeScript, React, and SQL with expertise in Data Structures, Algorithms, Object-oriented design, REST APIs, CI/CD, and Agile methodologies. Passionate about enterprise software and eager to contribute to mission-driven products in a fast-paced, collaborative engineering environment.

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**Education**

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

* BASc Software Engineering (GPA 9.18)

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**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, improving 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, enhancing 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.

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**Projects**

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

* Built a secure and scalable content management system using MongoDB, Express, Vue + TypeScript, 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.

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**Key Skills**

Languages/Frameworks: Python, React, TypeScript, Java, C#, SQL, Node.js, Express, Laravel, Vue

Concepts: REST APIs, CI/CD, Agile/Scrum, Data Structures, Algorithms, Object-oriented design

Tools: Git, Docker, Selenium, AWS, Jira

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