**Zeyu Shao**

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**Professional Summary**

Full-stack software engineer with a strong academic foundation and practical co-op experience developing scalable, production-ready web applications. Proficient in TypeScript, JavaScript, Python, and Java, with hands-on experience across the MEVN stack, RESTful APIs, SQL/NoSQL databases, and cloud-based deployments. Adept at Agile collaboration, CI/CD automation, and building modular, secure, and user-friendly interfaces. Eager to contribute to impactful digital products in a fast-paced, growth-oriented 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.
* Used AWS Athena to extract data from S3 buckets and ingest it into backend SQL storage, streamlining access to usage metrics.
* Integrated GitHub Dependabot with AWS Lambda to automate the creation of Shortcut tickets for dependency issues, improving vulnerability tracking and response times.
* Participated in Agile ceremonies, code reviews, and architecture discussions to maintain clean, scalable codebases.

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

* Developed automated test suites using TCL and Linux shell scripting to validate real-time messaging systems and APIs.
* Refactored and modernized over 30 legacy test scripts, enhancing compatibility with new API versions and reducing test failures.
* 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 legacy Vuex state management with Pinia, reducing code complexity and improving maintainability.
* Worked closely with other student developers to meet Agile sprint goals and document deliverables.

**Projects**

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

* Built a full-featured content management system using MongoDB, Express, Vue 3 + TypeScript, and Node.js.
* Implemented role-based authentication, RESTful API communication, and CI/CD automation with GitHub Actions.
* Integrated AWS S3 for image uploads and deployed to Heroku with automated test pipelines.
* Delivered a modular, maintainable platform tailored for non-technical users to update site content independently.

**Key Skills**

**Languages:** JavaScript, TypeScript, Python, Java, SQL, C#, C,

**Frameworks/Libraries:** Vue, React, Next.js, Node, Express, Laravel, Jest, Cypress, Bootstrap, Tailwind

**Concepts:** REST APIs, CI/CD, OOP, Agile/Scrum, Database Design (Relational & NoSQL), Embedded

**Tools:** Git, GitHub Actions, Jira, AWS (S3, Lambda, Athena), Docker, Selenium, Copilot

**Soft Skills:** Communication, Collaboration, Problem Solving, Fast Learner, Initiative