Treavor Gagne

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Summary

Passionate Software Developer with 5+ years of experience. Proven ability to design and deliver scalable, maintainable software across diverse teams and tech stacks. Experienced with using Node.js, Express.js, React.js, MySQL, and more. Eager to learn and grow, especially in fast-paced, evolving tech landscapes.

Technical Skills

Languages	JavaScript, SQL, HTML, Golang, Java, Python, EJS, Bash, TypeScript, Ruby
Frameworks	Node.js, React.js, Express.js, jQuery, BootStrap
Tools	Git, VS Code, Twilio, Splunk, Postman, Swagger, Docker
Databases	MySQL, RabbitMQ, PostgreSQL, MongoDB, Redis, TablePlus
Testing	Expect.js, Mocha, Unit Testing, Integration Testing
Practices	RESTful APIs, Microservices, Agile, Scrum, Kanban, Test Driven Development

Work Experience

SSi Canada Telecommunications, Software Engineer   Sept 2022 - Present
- Developed an input validation feature for both client and server side POST requests, preventing all requests with missing or invalid inputs while improving server side performance by 10%.
- Refactored a Node.js notification microservice to support email and SMS via Twilio for low data or account funds, entering roaming, and subscription renewal alerts, increasing user engagement by 38%.
- Migrated user data retrieval client side on page load in parts instead of server side all at once, reducing initial client load times by 80%, full client load time by 40%, and server performance by 20%.
- Coordinate with stakeholders and customer care team to deliver features and internal tools on time.

Natural Resources Canada, Software Developer Coop   May 2021 - Dec 2021
- Developed government web pages with PHP, jQuery, and MySQL for real-time data visualization.
- Built bilingual features following WCAG standards, ensuring 100% accessibility for all users.
- Optimized SQL queries, reducing execution and data retrieval times by up to 40%.

Solaires Enterprises Inc, Front-end Web Developer Contract   Aug 2020 - Dec 2020
- Developed a continuous scroll page with React.js, CSS, and HTML to replace a legacy site.
- Collaborated with a UX/UI designer to convert Figma mock-ups into reusable React.js components.

Ergonomyx Tech Canada Inc, Full-Stack Web Developer Coop   Sept 2019 - Aug 2020
- Built a standing desk e-commerce website and a companion health data tracking web app.
- Implemented an ecommerce cart and checkout using Express.js, PostgreSQL, and jQuery.
- Used MongoDB to store and aggregate data to visualise standing desk usage and health metrics.

Projects

Schedulator Capstone Project
- Designed and developed a Golang-based genetic algorithm to generate an optimized university class schedule, assigning professors to preferred classes and time slots with execution time under 3 seconds
- Communicated effectively and adhered to agile software practices, including daily stand-ups, sprint planning and retrospectives, client demos, and proactive stakeholder engagement. Ensured team and stakeholder alignment throughout development while delivering on time and to specification.

Portfolio Website
- Built with React.tsx and Chakra UI components, hosted on AWS Amplify with a Route 53 domain.

Education

University of Victoria, Victoria, BC, Canada   Sept 2017 - Aug 2020
- Bachelor of Software Engineering (BSEng) - 3.8/4 GPA.