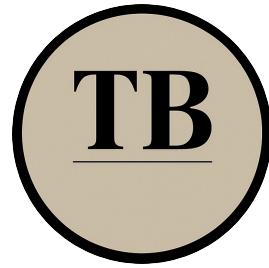


# Tyler Berkson

Senior Software Engineer focus on AI Development

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📍 Burnaby, British Columbia, Canada



## 👤 Profile

With nearly a decade of experience in modern web development, I build high-quality, scalable digital solutions across the full stack. Skilled in Python, JavaScript, and end-to-end application development, I deliver responsive user interfaces, robust backend systems, efficient APIs, and automated features that enhance performance and user experience. I prioritize clean, maintainable code and use technology to solve real business problems.

In my current role, I partner with multiple organizations to design, develop, and improve web applications.

My work includes delivering front-end features, optimizing backend functionality, integrating AI-driven components when beneficial, and ensuring consistently strong performance across devices. I bring a results-focused mindset, clear communication, and a commitment to delivering modern, reliable, and user-centric web solutions.

## 🎓 Education

### Bachelor of Computer Science, Douglas College

09/2013 – 06/2015

BC, Canada

I completed a 2-year IT program at Douglas College, where I gained practical skills in web development, programming, databases, and system analysis.

The hands-on curriculum allowed me to build real projects and strengthen my technical abilities.

## 💼 Professional Experience

### Senior Software Engineer focus on AI Development, Self Employed

03/2025 – Present

- As a Senior Software Developer specializing in AI, I design and deploy scalable AI/ML systems—from model development to backend integration—while collaborating closely with data scientists and engineers to deliver reliable, high-performance AI features.
- I ensure stable and scalable solutions by building data pipelines, developing APIs and microservices, managing cloud deployments, and leading AI projects. I also mentor junior developers to drive innovation across the team.
- I also implemented automated model monitoring and retraining workflows to maintain high accuracy and performance of AI systems in production environments.

### Expert Full Stack Developer, Better Business Bureau

03/2018 – 05/2022

- As a Full-Stack Developer, I architect and deliver scalable, high-performance web applications by building robust backend systems with Node.js, Python, and modern databases, and creating clean, responsive interfaces using React, Vue, and Angular.
- I optimize application workflows, integrate secure APIs, implement testing and CI/CD pipelines, and ensure reliable deployments through strong DevOps practices—consistently delivering stable, maintainable, and user-focused end-to-end solutions.
- I led cross-functional teams in refactoring legacy applications to modern frameworks, improving performance, maintainability, and user experience.

### Professional Backend-end Developer, Alliance Truss

08/2016 – 11/2017

- As a Backend Developer, I built reliable and well-structured system components, optimized workflows and data processes, and ensured high-quality execution through strong attention to detail.
- I planned and organized development tasks while maintaining clean, well-documented environments that improved team productivity and overall system stability.

- I implemented caching strategies and database optimizations that reduced response times and improved system scalability under heavy loads.

#### **Professional Front-end Developer, Core IT**

12/2015 – 09/2016

- As a Frontend Developer, I built and organized scalable UI components using React, Vue, and Angular while optimizing page layouts and user flows with modern CSS frameworks like Tailwind and Bootstrap.
- I monitored front-end performance, ensured accurate API integration, and delivered clean, maintainable features across multiple projects.
- I developed dynamic dashboards and interactive visualizations that enhanced data interpretation and user engagement.

#### **Web Developer, Tecnet Canada Inc.**

02/2014 – 10/2015

- Contributed to rebuilding Clark Freightways' internal logistics platform by developing React-based UI components, improving page performance, and supporting API integrations.
- Collaborated with senior developers to deliver clean, maintainable features, resolve bugs, and enhance overall usability across key workflows.
- Implemented real-time tracking features and notification systems that improved operational efficiency for internal users.

## Skills

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PHP	JavaScript(JS)
TypeScript(TS)	Symfony
Laravel	Angular.js
React.js	Next.js
Vue.js	Nuxt.js
Node.js	Express.js
Nest.js	Python
Flask	Django
REST API	GraphQL API
MySQL	MongoDB
PostgreSQL	MariaDB
DynamoDB	TensorFlow
AI/ML systems design	PyTorch
OpenAI	Pipecone
Chatbot Development	Pandas
FASTAPI	JWT
AWS	Docker
CI/CD	Vercel
Netlify	Git / GitHub
Jira	Agile/Scrum

## Hobbies

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- Coding

- Fitness

- Cycling