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## TECHNICAL SKILLS

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**Languages:** JavaScript · TypeScript · SQL · Python · C

**Frameworks:** React.js · Express.js · NextJS · Angular

**Technologies:** PostgreSQL · MongoDB · Docker · Kubernetes · Firebase

## EDUCATION

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**University of Waterloo** - Bachelor of Mathematics

*September 2018 - April 2023*

## EXPERIENCE

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**TK Events Inc** - Software Developer

*June 2023 - December 2024*

- Led the design and development of an innovative virtual event studio using Figma, Material UI, PostgreSQL, and NextJS
- Architected high-performance scalable microservices using a mix of MVC and Domain-Driven Design principles
- Reduced API calls by 20% using caching layers and optimized database queries
- Orchestrated transition to AWS EC2 instances from Docker containers, utilizing S3 buckets and RDS instances for storage across multiple AZs
- Leveraged server-side rendering (SSR) for enhanced performance, reducing load times by 25% and boosting SEO
- Implemented SSR-based session management, automating JWT token renewal, reducing forced logouts by 40%, and boosting user retention

**Alertdriving** - Software Engineer

*September 2022 - December 2022*

- Supported a PHP-based Moodle LMS E-Learning platform, servicing thousands of driver safety courses in over 125 countries
- Developed a new SCORM Manifest management system by brainstorming with team members, demonstrating capabilities by creating a working prototype with CRUD support

**Harled Inc** - Software Developer

*January 2022 - April 2022*

- Collaborated in building transformational software for the Royal Canadian Air Force using Rails, helping bring the military into the information age
- Implemented full-stack features while constructively engaging with PO and clients, from cron-jobs and data migrations to UX design
- Championed “Learn, Create, Teach”, an initiative facilitating efficient team knowledge transfer to compete with much larger private sector competitors

**The Co-operators** - DevOps Engineer

*May 2021 - September 2021*

- Developed and demoed SCM to Deployment Pipeline Webhook POC, eliminating overhead by 5 minutes
- Automated away tedious Jenkins-Build configurations through Groovy scripting
- Debugged and deployed new client-facing features using SQL and Angular

**Bentley Systems** - Software Developer

*January - April, September - December 2020*

- Worked within an agile environment creating customer and developer-facing User Interface components using React and Sass CSS on an Azure Cloud Platform
- Added client-side caching to improve performance by 25%
- Designed a customizable settings page in TypeScript, enabling better developer feature testing
- Wrote, debugged, and updated unit tests to increase code coverage via Jest and Enzyme
- Utilized DOS scripting in PowerShell to improve software installation speed by 50%