

# Eric Tan

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## SKILLS

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

**Frameworks & Libraries:** React, Vue.js, Node.js, Express, JQuery, KendoUI, Pandas, Beautiful Soup

**Cloud & DevOp:** Amazon Web Services (AWS), Google Cloud Platform (GCP), Vercel, Firebase

**Other Technologies:** PostgreSQL, MongoDB, Git, OpenAI, Docker, N8n, FusionAuth, Figma

## EXPERIENCE

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### Play On! Canada

June 2023 – Present

*Full-Stack Developer — React, TypeScript, Node.js, PostgreSQL, N8n, GCP, OpenAI*

*Vancouver, BC*

- Led development of a tournament management system for Canada's largest street hockey events, using React, TypeScript, and Node.js, reducing scheduling effort by 40% and supporting 1,000+ players with real-time updates
- Reduced manual testing time by 90% by implementing automated build pipelines, enabling continuous integration and deployment, and accelerating release cycles from weekly to daily
- Developed RESTful API endpoints using Node.js, Express, and PostgreSQL, implementing proper validation, caching, and error handling, to ensure stable data flows during multi-day tournament operations
- Integrated Stripe and Braintree payment processors, reducing payment processing time by 50% and enhancing transaction security, enabling seamless online payments for thousands of participants

### D3 Security

November 2022 – May 2023

*Full-Stack Software Engineer — React, Python, C#, .NET, MongoDB*

*Vancouver, BC*

- Created various application commands using C# and Python, including system utility commands, integration commands, and custom commands, reducing manual steps by 50% for internal teams
- Migrated legacy Web Methods to a modern API structure, increasing system performance by 30% while enhancing code maintainability and compatibility
- Implemented secure authentication and authorization using Microsoft Identity Platform, ensuring 99% up-time and supporting 10,000+ active users with a seamless login experience

### IOTO International Inc.

October 2021 - January 2022

*Software Engineer Intern — Python, AWS, PostgreSQL, Pandas, Docker*

*Vancouver, BC*

- Engineered Python machine learning features for the Goverlytics platform, analyzing 500+ legislative bills daily and delivering real-time political insights that increased user engagement by 35%.
- Optimized AWS CodePipeline builds by caching Docker layers and dependencies, reducing build times from 8 minutes to 50 seconds and accelerating development cycles
- Automated municipal councilors' Twitter scraper using a scheduled Python script, reducing manual effort and cutting new query requests by 75%

## PROJECTS

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### UFC Fight Predictor | Python, Pandas, NumPy, Scikit-learn, Jupyter

- Built a machine learning pipeline that predicted UFC fight winners with 85%+ accuracy, using 5,000+ historical fight records scraped from UFCStats.com, cleaned and transformed into model-ready inputs
- Conducted Principal Component Analysis (PCA) and model evaluation (Logistic Regression, Random Forest, Gradient Boosting) to uncover patterns in fighter performance and identify key predictors of fight outcomes

### InstaPost AI | JavaScript, Node.js, OpenAI, AWS

- Built an automated Instagram posting system that detects new music releases via Spotify API and retrieves images from AWS S3, reducing manual effort by 95%
- Leveraged a Node.js backend to manage API interactions, integrating OpenAI for AI-generated captions and Facebook Graph API for seamless Instagram automation

## EDUCATION

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### British Columbia Institute of Technology (BCIT)

Burnaby, BC

*Computer System Technology Diploma (with Distinction)*

*June 2022*