Brandon Fernandez

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SOFTWARE SKILLS AND LANGUAGES

- **Programming Languages:** Python, Java, C++, JavaScript, HTML/CSS, React, SQL/PostgreSQL, NodeJS.
- **Software:** PyCharm, NetBeans, Visual Studio Code, Git/Github, Microsoft Suite, Supabase, Strapi, Figma.
- **Programming Skills:** Full-stack development, REST API design, data structures, OOP, algorithms, database design and optimization (SQL/PostgreSQL), unit testing and debugging, fault-tolerant system design, version control (Git), cloud/service integration, and AI/ML development (model training, evaluation, and deployment).

EDUCATION

Honours Bachelor of Science in Computer Science Co-op
Brock University | St. Catharines, ON | April 2022 – December 2025
- Minor in Mathematics

Computer Science, Mathematics and Statistics
University of Toronto Mississauga | Mississauga, ON | September 2021 - April 2022

WORK EXPERIENCE

Civiconnect | Beamsville, ON | Full Stack - Web Development Specialist   May 2025 – Present

- Collaborated with clients and cross-functional teams to gather requirements and design technical solutions.
- Developed, tested, and deployed enhancements to web systems ensuring accuracy and performance.
- Supported integration with third-party tools/APIs, troubleshooting issues to maintain system stability.
- Prepared documentation and user guides to support adoption and maintenance of new features.

Brock University | St. Catharines, ON | Teacher Assistant/Marker   September 2025 – January 2026

- Evaluated assignments, labs, and written responses for a 3rd-year Computer Networking course, ensuring consistent, fair, and standards-aligned grading across all submissions.
- Provided clear written feedback to support student understanding of core networking concepts.
- Assisted the instructor with marking coordination and maintaining grading accuracy.

Civiconnect | Beamsville, ON | Full Stack - Web Developer Team Lead   September 2023 – May 2025

- Participated in the creation of the client's recruitment software, employing JSX/Typescript, HTML5, Tailwind CSS, React, Next.JS, PostgreSQL, Supabase, Strapi, and REST APIs.
- Engineered a variety of web components, integrating dynamic features to enhance webpage responsiveness and adhere to contemporary user experience principles.
- Demonstrated proficiency in Agile methodologies, actively contributing to streamlined two-week sprint cycles.
- Conducted regression and performance testing to ensure data accuracy and system functionality.

PROJECTS

Curly Lifestyles | React, Tailwind/CSS, JavaScript, Supabase | Full-Stack Developer   September 2024 – May 2025
- Led an 8-person development team to design and build a full-featured React website for a community platform for curly, coily, and wavy hair enthusiasts.
- Implemented user authentication, social-media style feed (posting, commenting, following), and advanced search/filtering of users, posts, and tags.
- Built a custom Supabase backend and admin dashboards for site management, analytics, and content moderation.

Generative Adversarial Networks for IoT Security IEEE VCC 2024) | Brock University   May 2024 – Nov 2024
- Developed a CNN-based GAN for IoT intrusion detection, improving anomaly recognition through synthetic attack data generation.
- Enhanced model robustness and generalization by augmenting datasets with GAN-generated adversarial traffic patterns.
- Co-authored and presented the work at IEEE VCC 2024