# Scott Greff
## 8 – 5 E 10th Ave, Vancouver, BC V5T 1Y9

Phone: (778) 389-0344

Email: scottiegreff@gmail.com

Website: scottgreff.com

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**EDUCATION**

- Computer Science Associate Degree,  Langara, Vancouver BC (2023)

- Audio Engineering, Berkely School of Music,  Boston Ma, (2004)

- Grade XII Diploma, O'Neil Secondary, Regina, SK (2001)

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**PROFILE**

As a dynamic and innovative web developer, my passion lies at the intersection of cutting-edge technology and creative solutions. I am dedicated to lifelong learning, constantly updating my skills to stay ahead in the ever-evolving tech landscape. My problem-solving abilities are matched by a robust set of soft skills that make me an invaluable team player. I am eager to genuinely listen and learn from others and contribute my honest insights only when I believe it will aid in resolving challenges. With a personal interest in music, cooking, and travel, I bring a sense of creativity to the development process, ensuring that code not only functions but engages. I am driven by a relentless pursuit of excellence, taking pride in writing clean, efficient code and seeing tasks through to completion. As I seek to contribute to a forward-thinking team, my goal is to deliver high-quality web solutions that drive innovation and exceed expectations.

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**WORK EXPERIENCE**

2021-2024          **Full-Stack Developer**, Vancouver, BC
                   Freelance Work

- Expertise in HTML, CSS, and JavaScript for crafting responsive and interactive user interfaces.

- Knowledge of server-side languages such as Node.js, Python, or PHP for backend development.

- Ability to work with various databases, including relational databases ( Postgres ) and Non-relational databases ( MongoDB ).

- Experience with front-end frameworks ( React & Next JS ) and libraries, as well as backend frameworks ( Express.js ).

- Proficiency in using version control systems for code tracking ( GitHub ), collaboration ( JIRA ), and deployment (AWS).

- Skilled in creating and integrating APIs, with RESTful services for client-server communication.

- Expertise in implementing robust state management solutions ( Redux ) to ensure a seamless data flow and maintain application state across multiple sessions and interactions.

- Proficient in implementing authentication mechanisms, leveraging JSON Web Tokens for secure user session management and maintaining application integrity.

- Comprehension of web architecture, including client-server communication, data flow, and security best practices.

- Understanding of basic design principles to ensure applications are both user-friendly and visually appealing.

    Strong analytical and problem-solving abilities for effective troubleshooting and debugging of web applications.

- Good communication, time management, and a proactive approach to learning and adapting to new technologies.

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2016-2019          **Greff Growler**, Vancouver, BC
                   Partnership Owner
                   Product Design, Sales, Marketing, Production Lead

Co-owner of a business that specialized in supplying breweries with customized, branded merchandise for sale at their locations.

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- Designed a range of products including portable beer growler holders and home bar accessories.

- Managed the logistics and supply chain coordination for the product from the point of manufacture to delivery.

- Market and distribute a curated selection of portable beer growler holders and home bar accessories to breweries for retail.

- Developed partnerships with local and regional breweries to expand market presence and brand recognition.

- Instituted a quality control process to guarantee the highest standard of products delivered to brewery.

- Launched targeted social media campaigns to generate interest and brand awareness.

- Conducted A/B testing for marketing by using Google analytics to optimize ad spend and improve ROI.

- Partnered with local events and beer festivals to sponsor booths, increasing product visibility and direct customer engagement.

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2007-2018       **Vancouver Public School Board**, Vancouver, BC
School and Student Support Worker
Tutoring Teacher for Math and Science (2014-2019) Team
Lead of District Program (2010-2014)

Taught within classrooms to reinforce and provide personalized tutoring on course material for students. Supported students with diverse abilities in integrated classrooms, special programs and in work experience.

- Tailoring teaching methods to accommodate different learning styles.

- Breaking down complex topics into understandable segments.

- Creating engaging lesson plans to reiterate classroom material.

- Helping students develop effective study and time management skills.

- Participated in quality assurance audits and program reviews.

- Participating in professional development to stay current with educational best practices.

- Assessing student understanding and knowledge gaps through informal assessments.

- Conducting one-on-one or small group tutoring sessions.

   Monitoring student progress and adjusting teaching strategies accordingly.

- Trained and mentored support workers.

- Advocated for student self-determination, empowerment, inclusivity and diversity.

- Aided in the development and implementation of Individual Education Plans.

- Liaised with families and community supports, maintaining excellent communication, respect and trust.

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2005-2007          **Spectrum Society for Community Living,** Vancouver, BC
                    Team Lead - Key Worker (2005-2008)
                    Community Support Worker

Primary Caregiver, supported adults with diverse abilities.

- Supervised, trained, and mentored staff in the needs of the clients and ensured they were up to date on client development and changing needs.

- Participated in staff hiring, created staff schedule, and completed staff performance reviews.

- Provided leadership, in conjunction with the clients, Manager and team, in determining short and long-term goals, and in the planning and development relevant to the needs of the clients.

- Coordinated and facilitated team meetings.

- Oversaw the care and support of clients in areas of health, safety, finances, staffing, and record keeping.

- Liaised with health care teams, families and community services.

**EDUCATION (non-formal)**

- Machine Learning Course by Andrew Ng (current)

- AWS Cloud Practitioner Certification

- Data Structures & Algorithms in C++ by Mosh Hamedani

- C++ Course on low level optimization

- OOP Course in Java

**ACCOMPLISHMENTS, CONTINUOUS GROWTH**

Streamlined codebase by refactoring components, achieving a 60% reduction in code length for enhanced readability and maintainability, aligned with best practice industry standards.

- Developed and integrated efficient back-end services with databases, leading to a ~600ms decrease in data fetching by upgrading legacy code to newer server-side rendering.

- Enhanced user security by transitioning from session-based to JWT token-based authorization, tightening app security while also reducing data transfer by 45%.

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- Instituted a stable global state management system to eliminate prop-drilling, thereby improving the code base's readability, maintainability, all while achieving the separation of concerns principle.

- Successfully launched multiple responsive websites that met or exceeded user engagement metrics.

- Actively pursuing and obtaining certifications in cutting-edge web technologies, collaborating with senior developers on side projects that extend our collective expertise, foster peer-to-peer learning.

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**HARD SKILLS**

Languages: JavaScript, TypeScript, HTML , CSS , Python , Java , C++ , SQL , PHP

Frontend / Backend Framework: React , Next JS , Express , Django

AWS: EC2 , IAM , S3 , RDS , EBS , Lambda , CloudFront , SNS , VPC , Elastic Beastalk , DynamoBD

CSS Frameworks: Tailwind , Bootstrap

Component Libraries: ShadCN , React-Bootstrap , Styled-Components , Material-UI , Tailwind-UI

Databases: PostgreSQL , MongoDB , SQLite , Plain JSON

ORMs: Mongoose , Prisma , Drizzle

Authentication: OAuth , Sessions , JWT /JWE , Auth.js , Clerk , , Adapters , Providers

State Management: Redux , Context , Zustand

APIs: REST API , Fetch , Axios, Public , Token-Based

Form Management and Validation: React Hook Form , ZOD , Toast

Accessibility: Aria: Screen Readers , UX/UI

Runtime Environments: NodeJS , AWS Lambda,

Security & Prevention: SQL Injection , CORS , Cross-Site-Scripting

SEO: Crawling , Ranking , On-Page Optimization , Keyword Research , Off-Page Optimization , Backlinks , Google Analytics , hrefs

Repositories: Git , GitHub , GitBucket

Software Architecture: Model-View-Controller , Model-View-ViewModel

Methodologies: CI/CD , Agile Development , Scrum , User Stories

Coding Paradigms: Functional Programming , Object-Oriented Programming, Procedural Programming

Testing: Jest

Cloud Services: Netlify , Vercel , Firebase , AWS , Google Cloud, Azure

Animation - 2&3D: CSS , Spline , Adobe After Effects , Framer Motion , Blender

Graphics Editors: Figma , Adobe Illustrator , Adobe Photoshop , Adobe Premiere Pro

Audio Recording: Audacity , Logic Pro , Cubase , Garage Band , Pro Tools

* REFRENCES UPON REQUEST