GREG BARKER

Full-Stack Web Developer

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🔗 **https://github.com/savevsgames**   📍 **Calgary, AB, Canada**

SUMMARY

I'm a versatile full-stack developer, writer, and problem-solver who thrives on crafting dynamic solutions across multiple disciplines. After completing the Full-Stack Web Development diploma at the University of Toronto's edX program, I've continued to expand my skill set, diving into AI-driven tools, data structures, and algorithm design to stay at the forefront of emerging technologies.

Currently, I handle all technical operations for an e-commerce venture; integrating platforms, designing websites, developing custom Shopify (Liquid) features, and managing international logistics through Amazon MCF. My hands-on approach has guided the successful launch and growth of two products, backed by robust data tracking and digital marketing strategies.

Beyond e-commerce, I'm exploring AI applications for broader projects and developing a web-based JavaScript game inspired by my first novel-in-progress. I'm passionate about continual learning—whether it's tackling data structure problems, completing online courses or attending webinars to refine my craft. My ultimate goal is to combine creativity, technical expertise, and collaborative teamwork to deliver innovative, scalable solutions that push the boundaries of what's possible in the digital sphere.

SKILLS

Frontend Development

Javascript, Typescript, HTML, CSS, Markdown, React, Vue.js, Next.js, Tailwind CSS, Bootstrap, Material UI, Chakra UI, Three.js, React Three/Fiber, GSAP, WebGL, Electron.js, Figma

Backend Development

Node JS, Python, Flask, Express.js., Java, Sprint Boot, Serverless Frameworks

DevOps & CI/CD

GitHub Actions, Docker, ESLint, Prettier, Vitest, CI/CD, Dev-Ops, Render, AWS, Azure

Security & Communications

JWT, OAuth2, SSH/SSL Certificates, Real-Time & Web Technologies WebSockets, WebRTC, PeerJS, Socket I/O

AI & Machine Learning

OpenAI API, NLP, OpenCV.js, TensorFlow.js, PyTorch, AutoML, LangChain, LangGraph, Prompt Engineering, AI Image Generation, Stable Diffusion, Hugging Face, Ollama Local, Azure, AWS and Microsoft cloud integrations.

Digital Media & Streaming

OBS Streaming, Digital Audio Recording, Blender, Adobe Creative Cloud Suite

STRENGTHS

Computer Competencies
Computer hardware, network installation, troubleshooting, and software applications.

Communication Skills & Detail Oriented
Ability write concisely, speak clearly and listen to others. Uses systematic approaches to inspect and verify information.

Creative & Analytical
Identify strengths and weaknesses of various approaches to challenges, providing alternate solutions. Digital and visual content creation; writing, drawing, digital art mediums and music.

Problem Solver
Mind map, brainstorm, and develop new ideas, followed by analyzing and refining them for optimal results.

PROJECTS

BetterBalls.com

🔗 https://www.betterballs.com/

- Developed and designed the "**Better Balls**" e-commerce website, implementing the brand's story and design specifications.
- Created all media content, managed budgets for marketing campaigns to boost sales, and established an affiliate marketing program. Implemented post-purchase email flows, integrated Google Analytics and other tracking pixels, and facilitated automated affiliate payment processing through PayPal.
- Coordinated 3PL shipping with Amazon to streamline order fulfillment.
- For more details, visit: https://www.betterballs.com/

PROJECTS

My3DPORTAL-folio

🔗 RENDER DEPLOYMENT: https://my3dportfolio-iqxj.onrender.com/

- My "**PORTAL-folio**", an innovative 3D web-dev portfolio website that utilizes interactive portals to navigate content, showcasing my own projects and skills in a dynamic and engaging manner.
- Designed and implemented the entire front-end using **React** and **Three.js**, creating immersive 3D environments for each section.
- Integrated **React Three Fiber** for efficient management of 3D scenes and **Framer Motion** to enhance user experience with smooth animations.
- For more details, visit the GitHub repository: https://github.com/savevsgames/My3DPortfolio

Friends Without Benefits

🔗 RENDER DEPLOYMENT: https://friends-without-benefits.onrender.com/

- "**Friends Without Benefits**," is a multiplayer scavenger hunt game utilizing webcam-based object recognition, Socket I/O and PeerJS for RTC.
- Contributed to AI training and implementation, front-end wireframing, and back-end/database (ERD) design and integration, employing technologies such as React, Vite, Socket.IO, PeerJS, Node.js, Express, MongoDB, and TensorFlow.js.
- For more details, visit the GitHub repository: https://github.com/savevsgames/friends-without-benefits

catGPT

🔗 RENDER DEPLOYMENT: https://catgpt-1-il6e.onrender.com

- Developed "**catGPT**", a React-based RAG (Retrieval-Augmented Generation) chat application enabling registered users to interact with AI-powered virtual cats, utilizing OpenAI's GPT models and LangChain for advanced conversational capabilities.
- Designed and illustrated all cat artwork, crafted the front-end user interface with React and Tailwind CSS, and integrated the Minimum Viable Product (MVP) with a basic prompt chain.
- Subsequently, enhanced the application into a RAG system with Redis for efficient database management. Collaborated in an agile environment, primarily focusing on front-end development and creating interfaces to support back-end functionalities.
- For more details, visit the GitHub repository: https://github.com/savevsgames/catGPT

EDUCATION

07/2024 - 01/2025
Toronto, ON

Full-Stack Web Development
University of Toronto

FINAL **99.7** / **100**

- Full-Stack Apps: JavaScript, Typescript, HTML, CSS, REST APIs, CRUD, and MVC.
- Databases: Worked with SQL & NoSQL for efficient data storage.
- AI & Automation: AI tools, models, prompt engineering, chains and agent flows.
- CI/CD & DevOps: Built CI/CD pipelines, testing, and deployments.

09/2003 - 05/2004
Toronto, ON

Entertainment Business Degree
Trebas Institute

09/2001 - 05/2003
Guelph, ON

Computer Engineering (2 Years)
University of Guelph

EXPERIENCE

05/2023 - Present
Calgary, AB

Full-Stack Web Developer | E-Commerce & Digital Marketing
Betterson Brands

- Designed, developed, and maintained the company website, ensuring specific customer requirements were met and UI/UX was appealing, user-friendly, and responsive with optimal functionality.
- Customized brand content resulting in enhanced user engagement by integrating a headless CMS with Shopify.
- Successfully integrated various applications, including Amazon MCF, to establish connections between orders and inventory, promoting synchronization between new store and Amazon listings.
- Designed product launch Media & PPC campaigns, built influencer networking funnel to drive sales and foster company growth.

01/2008 - 03/2023
Calgary, AB

Journeyman Electrician
Various Companies

- Electrical Foreman with expertise in safely managing the installation and maintenance of hundreds of residential and commercial electrical projects.
- Skilled in estimating project bids, safety compliance, and leading small teams to do efficient & high-quality work.

CERTIFICATION

Complete Web Development Bootcamp - 2023
Complete Web Development Bootcamp on Udemy

Master Electrician Exam Course - 2023
NAIT Master Electrician Exam Course in Edmonton, AB

Red Seal – Journeyman Electrician - 2013
SAIT Red Seal - Journeyman Electrician in Calgary, AB