

Patrick Shannon

Senior Full Stack Developer

Halifax, NS | peshannon104@gmail.com | linkedin.com/in/patrick-e-shannon | github.com/patshannon

Summary

Senior full-stack developer (5+ years) experienced in leading complete software lifecycles — from technical planning and architecture to implementation and optimization. Skilled in React, Next.js, Node.js, and GCP/Firebase, with a focus on system design, performance optimization, scalability, and maintainability. Experienced in API integration, agile development, and modern cloud architectures. Collaborates closely with leadership on technical direction and applies AI-assisted development tools (Claude Code, GitHub Copilot, Codex, GitHub Spec Kit) to enhance architecture, refactoring, and documentation.

Skills

- **Frontend:** React, Next.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Webpack, Vite
- **Backend:** Node.js, REST, GraphQL, API Design, API Integration, Auth (JWT/OAuth), Microservices Architecture, System Design
- **Databases:** Firestore (NoSQL), PostgreSQL (Supabase), Schema Design
- **Cloud/DevOps:** GCP, Firebase (Auth, Firestore), Docker, Containers, Vercel, Cloud Run, Pub/Sub, GitHub Actions (CI/CD), Monitoring / Observability, Scalability
- **CMS & Content:** Headless CMS
- **Testing:** Jest (unit), Playwright (E2E)
- **AI-Assisted Dev:** Claude Code, OpenAI Codex, GitHub Copilot, GitHub Spec Kit – for planning, refactoring, and documentation
- **Tooling & Workflow:** ESLint, Prettier, Husky, Figma, Agile Development, Scrum

Experience

Senior Full Stack Developer

bbox.digital (Remote)
Dec 2021 – Present

Responsible for planning, architecting, and delivering full-stack web applications across multiple client projects. Partnered closely with the company's co-founder to define technical direction and ensure scalable, maintainable solutions built on modern web and cloud technologies.

- Designed and developed scalable web applications using React, Next.js, TypeScript, and Tailwind CSS, aligning solutions with business and client goals.
- Architected and maintained cloud-based systems with Node.js, REST, and GraphQL APIs on GCP/Firebase, integrating headless CMS architectures to improve performance, maintainability, and scalability.

- Planned technical roadmaps, scoped project requirements, and executed implementation phases from concept through optimization, following agile development practices and sprint-based delivery.
- Applied AI-assisted development tools (Claude Code, GitHub Copilot, Codex, GitHub Spec Kit) to accelerate architecture planning, refactoring, and documentation workflows.
- Developed and optimized caching strategies on GCP infrastructure, improving CMS API efficiency by 100%, reducing external API calls by 20%, and cutting Algolia search requests by ~95% (4.9M → 0.23M/month) — a key performance optimization initiative.
- Implemented CI/CD pipelines with GitHub Actions, ensuring smooth, reliable release processes and high-quality deployments.
- Enhanced code quality and reliability through automated testing (Jest for unit tests, Playwright for E2E), reducing production issues and ensuring maintainable systems.
- Designed and implemented database schemas using Firestore and PostgreSQL (Supabase), maintaining data integrity, access control, and scalability.
- Integrated Stripe SDKs for secure payment processing and subscription management, supporting scalable SaaS monetization workflows.
- Ensured SEO-friendly and accessible (a11y) interfaces, improving Lighthouse performance and core web vitals, contributing to a 40% increase in Google Search Console impressions.
- Authored and maintained comprehensive technical documentation for APIs, architecture, and development workflows to support transparency and onboarding.
- Monitored and optimized cloud infrastructure for uptime, observability, and cost efficiency, proactively addressing issues to maintain SLA compliance.

Webflow Expert / Web Developer / Web Designer (Freelance)

Upwork (Remote)

May 2021 – Dec 2021

- Designed and developed responsive web applications using Figma, Webflow, and JavaScript. Delivered client projects with focus on clean UI/UX, scalability, and maintainability while ensuring clear communication and on-time delivery. Collaborated with clients in an agile environment to ensure product goals were achieved efficiently and iteratively.

Aviation Career (2013 – 2021)

Porter Airlines | PAL Aerospace | Moncton Flight College

- Held leadership and training roles in commercial and medevac operations. Developed expertise in team coordination, precision under pressure, and regulatory compliance—skills directly transferable to software project leadership and reliability engineering.

Education

Software Development Training

Self-Directed

Jan 2021 – Jan 2022

- Planned and executed a comprehensive, self-directed software development curriculum emphasizing a variety of modern full stack web application technologies, including React, JavaScript, CSS, HTML, and Node.js. Developed strong understanding of software architecture, scalable backend solutions, REST APIs, GraphQL, cloud platforms (GCP), and databases, applying best practices in system design, testing, quality assurance, and security.

Enhanced technical skills through hands-on project work, code reviews, and Agile workflows, while building communication, collaboration, and leadership abilities by mentoring peers and delivering customer-focused, maintainable products aligned with industry standards.

Bachelor of Science Degree, Aviation

Mount Allison University
Sackville, NB
Graduated with 3.68 GPA

Volunteering

Mentor, Skills for Hire Atlantic Mentorship Program
Digital Nova Scotia
2025 Cohort (Ongoing)

Architecture Brigade Volunteer
Global Brigades, Honduras
2013