

# Patrick Shannon

Full Stack Software Developer / Technical Team Lead

## Summary

Results-driven Full Stack Software Developer and Technical Team Lead with 4+ years of experience building scalable, secure, and high-performance web applications. Proficient in modern frontend and backend technologies including React, Next.js, TypeScript, Node.js, and GraphQL. Adept at leading cross-functional teams, architecting robust systems, and managing end-to-end software development lifecycles using Agile and DevOps methodologies.

Skilled in cloud infrastructure (Google Cloud Platform, Firebase), CI/CD automation (GitHub Actions), API development (REST, GraphQL), and database design (SQL/NoSQL). Proven ability to enhance application performance, ensure code quality, and align technical solutions with business goals. Committed to mentoring, continuous improvement, and delivering user-centric, production-ready software.

## Skills

- **Frontend:** React, Next.js, JavaScript (ES6+), TypeScript, HTML5, CSS3, Tailwind CSS, Web Components, Responsive Design, Scalable Web Architecture, UI/UX Design, Web Applications, Maintainable Code, Best Practices, Customer-Focused Solutions
- **Backend:** Node.js, REST APIs, GraphQL, API Development, Backend Architecture, Full Stack Development, Secure Code, Scalable Solutions, Agile Methodologies, Product Development
- **Databases:** Firestore (NoSQL), Supabase (PostgreSQL), Data Management, Database Design, Data Security
- **Cloud & DevOps:** Google Cloud Platform (GCP), Firebase (Auth, Firestore), Cloud Infrastructure, CI/CD Pipelines (GitHub Actions), Version Control (Git/GitHub), Deployment Automation, Software Development Pipelines
- **Testing:** Jest (Unit Testing), Playwright (E2E Testing), Software Testing Principles, Quality Assurance, Code Reviews, Test Automation
- **Tools & Collaboration:** ESLint, Prettier, Husky, Figma, Communication Skills, Team Collaboration, Leadership, Mentoring, Professional Planning, Agile Workflows
- **Additional Competencies:** Passion for learning and adopting new technologies, delivering solutions that balance quality, performance, and maintainability, strong understanding of product requirements, and effective communication skills to align development with customer and business objectives.

# Experience

## Full stack Software Developer / Technical Team Lead

bbox.digital (Remote)

Dec 2021 – Present

- Led software development and design of scalable web applications and dashboards using modern frontend and backend technologies including React, Next.js, TypeScript, JavaScript, and Tailwind CSS, delivering high-quality solutions aligned with product and customer requirements.
- Architected and implemented secure and maintainable cloud-based systems with Node.js, REST API and GraphQL APIs, integrating headless CMS architectures, enabling seamless data delivery and enhancing performance and scalability on Google Cloud Platform (GCP).
- Collaborated with cross-functional teams using Agile methodologies to gather technical requirements, plan sprints, and deliver customer-facing features, driving alignment between product, development, and client stakeholders through effective communication.
- Applied best practices in code quality with comprehensive automated testing strategies, including unit tests with Jest and end-to-end testing with Playwright, reducing defects and improving reliability across applications.
- Developed and optimized caching strategies and pipelines on the cloud infrastructure, improving CMS API usage efficiency by 100% and reducing external API calls by 20%, significantly enhancing application performance.
- Led technical mentoring and code reviews across the team, ensuring adherence to security standards, professional and clean code principles while fostering continuous learning and leadership within the team.
- Designed and implemented database schemas using NoSQL (Firestore) and SQL databases, managing data and access security rules to support scalable and secure backend services.
- Developed and maintained payment processing and subscription management using Stripe SDKs, contributing to secure, scalable SaaS platform monetization workflows.
- Ensured SEO-friendly and accessible (a11y) user interfaces, significantly improving Lighthouse performance scores and core web vitals, contributing to a 40% increase in Google Search Console impressions.
- Authored and maintained comprehensive technical documentation for APIs, software development processes, and client-facing deliverables, promoting transparency and facilitating onboarding.
- Managed CI/CD pipelines with GitHub Actions, coordinating release planning and deployment activities, contributing to smooth and efficient product delivery cycles.
- Monitored cloud infrastructure for SLA compliance, uptime, error management, and cost optimization on GCP, proactively identifying improvement areas to maximize stability, security, and cost efficiency.

## Webflow Expert / Web Developer / Web Designer (Freelance)

Upwork (Remote)

May 2021 – Dec 2021

- Designed and developed responsive web applications with a strong focus on UI/UX design using Figma and Webflow, delivering scalable, maintainable, and high-quality frontend solutions aligned with client requirements.
- Utilized JavaScript and jQuery to implement custom, client-specific functionalities, ensuring optimal performance, security standards, and cross-browser compatibility.
- Performed continuous code maintenance, bug fixes, and performance optimizations to improve application stability and customer experience throughout the development lifecycle.
- Collaborated closely with clients to understand product goals, communicate technical solutions, and deliver projects following best practices in software development and agile methodologies.
- Applied professional communication skills to provide clear updates and manage expectations, ensuring successful project outcomes delivered on time.

## Pilot

Porter Airlines, Halifax, NS

Aug 2018 – Dec 2021

- Demonstrated strong leadership, communication skills, and team collaboration in a high-stakes, regulated environment, driving safe and efficient flight operations aligned with strict standards.
- Applied rigorous planning, problem-solving, and decision-making abilities to ensure performance quality, operational safety, and regulatory compliance under pressure.
- Maintained a continuous focus on learning, adaptability, and maintaining customer satisfaction through proactive communication and teamwork.
- Utilized clear and concise technical communication to coordinate with multi-disciplinary teams, ensuring situational awareness and adherence to operational best practices.
- Fostered a collaborative culture emphasizing precision, quality, and safety.

## Pilot

PAL Aerospace, Halifax, NS

June 2016 - Aug 2018

- Operated BE20 aircraft for critical medevac missions, ensuring strict adherence to safety standards, rigorous planning, and operational performance while collaborating effectively with multidisciplinary teams to deliver timely, high-quality solutions and exceptional customer service.

- Demonstrated strong communication skills and technical discipline by maintaining compliance with protocols, facilitating real-time decision-making, and fostering continuous learning and adaptability in dynamic, high-pressure environments.

## Flight Instructor / Team Leader

Moncton Flight College, Dieppe, NB

July 2013 - June 2016

- Led and mentored a team of flight instructors, fostering a professional and supportive training environment.
- Oversaw the development and implementation of comprehensive pilot training programs in accordance with regulatory standards and aviation best practices.
- Delivered technical flight instruction and performance coaching to enhance pilot skills and safety awareness.
- Ensured compliance with all safety protocols, quality standards, and operational procedures.
- Conducted regular assessments and provided constructive feedback to maintain high instructional quality.
- Coordinated team planning and communication to promote continuous improvement and effective knowledge sharing.

## 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