Stephen Crocker

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Education

Bachelor of Computer Science (B.Sc.)   Sept 2017 - Dec 2025
Memorial University of Newfoundland
Accelerated Software Development (Honours)   Jan 2024 - May 2025
Keyin College
Bachelor of Business Administration (B.B.A.)   Sept 2019 - May 2025
Memorial University of Newfoundland

Projects

Various Games – *Unity (C#), Blender*
- Developed and optimized **10+ cross-platform games** in Unity for mobile, desktop, and web deployment.
- Published 10 complete games on stoozly.itch.io generating over **1000+ plays**.

LexAI – *Next.js, React, TypeScript, Prisma, MongoDB, OpenAI, Tailwind CSS*
- Co-developed a **full-stack AI tutor app** integrating multiple AI APIs (OpenAI, Gemini, Ollama) with secure user authentication, winning "**Most Technical Award**" at 2024 NL Hackathon.

Whatchu Cooking? – *Mobile Development, Flutter, Firebase, Dart*
- Co-developed a **cross-platform recipe sharing app** utilizing **Firebase Firestore** for real-time data synchronization and **Cloud Storage** for scalable image management across multiple platforms.

Tune Tracker - *Java, React, Spring Boot, MySQL, AWS (EC2, RDS, S3)*
- Built a **full-stack music library app** with React and REST API, deployed on **AWS infrastructure** with comprehensive testing using Postman and Mockito.

Real-Time Chat App - *Node.js, Express, MongoDB, WebSockets*
- Developed an **instant messaging app** with secure authentication, online status tracking, and administrative controls using WebSocket connections and bcrypt encryption.

Experience

LadderSpike – Software Development Intern   2024 - 2025
- Redesigned **3+ key components** of the company website—including product design and product viewer—and contributed to the overall theme update, improving **user engagement** and **visual consistency**.
- Conducted **market research** on 5+ competing platforms and designed product mock-ups in Figma, supporting **data-driven design decisions**.

Keyin College – Peer Tutor   Jan 2025 – Current
- Tutored **5+ students** in programming and mathematics by providing personalized, hands-on support, resulting in **improved grades** and **stronger technical problem-solving skills**.

Technical Skills

- **Languages:** *Python, Java, JavaScript, C, C#, C++, SQL, Dart, R, JSON, HTML, XML*
- **Frameworks:** *React.js, Next.js, Express.js, Node.js, Flask, Spring Boot, .NET, Mockito, Hive, Bottle*
- **Tools:** *AWS (EC2, S3, RDS, Lambda), Docker, Maven, MongoDB, PostgreSQL, Jest, Git, GitHub Actions, Postman, Jupyter, Flutter, Firebase, Android Studio, Figma*
- **Methodologies & Principles:** *Object-Oriented Programming, RESTful APIs, Database Design and Management, Unit Testing, CI/CD, MVC Architecture, Agile Development, Authentication and Authorization, Cross-Platform Development, Test-Driven Development, Version Control*

Certifications & Achievements

- **QA/QC Certified** Tester Foundation Level 4.0 – ISTQB®.
- **AWS Certified** Solutions Architect Associate.
- **3x AWS Academy Graduate** – Cloud Foundations, Cloud Developing, and Cloud Architecting.
- Introduction to Generative AI