Samuel Rivest

SOFTWARE DEVELOPER

Montreal | 514-323-3991 | rivest.samuel@outlook.com

Professional Summary

Innovative Junior Gameplay Engineer with over two years of experience in software development, specializing in VR and mobile applications. Proven track record of developing immersive educational technologies and interactive simulations using Unity, C#, and cutting-edge development tools. Demonstrated expertise in creating user-centric applications with a strong focus on UI/UX design and technical innovation. Bilingual professional committed to pushing the boundaries of interactive technology.

Technical Skills

- Programming Languages: Python, Java, C#, Swift, Swift UI
- Mobile Development: Unity, XCode, Android Studio
- Web Development: React.js, Angular, Node.js
- Database Management: MySQL, SQLite, MongoDB
- Tools and Frameworks: Blender, Adobe Creative Suite, Kali Linux
- Other Skills: Ethical hacking, penetration testing, UI/UX design

Languages

- English: Native proficiency (spoken and written)
- Français : Maîtrise native (oral et écrit)
- Italiano: Apprendimento (attualmente sto imparando)

Professional Experience

Web Engineer & Developer | CERASP, Montreal | Feb. 2025 – Present

- Built and maintained responsive web applications using React.js and CSS, with dynamic content powered by Strapi CMS.
- Deployed and managed full-stack solutions on Heroku, ensuring smooth API integration and cross-platform performance.

Mobile and Virtual Reality Developer | VR/AI, Montreal | Mar. 2024 – Dec 2024

- Designed and implemented advanced VR cleanrooms for educational sector, enhancing interactive learning experiences
- Developed sophisticated VR simulations for biochemical engineering education using Unity Engine and C#
- Created interactive UI systems that improved user engagement and learning outcomes
- Contributed to the development of the interactable UI system

Mobile Application Developer | John Abbott College, Montreal | Mar. 2023 – Mar. 2024

- Developed comprehensive mobile application for biochemical engineering education, streamlining complex scientific learning
- Created detailed 3D models using Blender, enhancing visual accuracy and user interaction in educational simulations
- Designed user-centric wireframes and application architectures to optimize mobile learning experiences
- Utilized Unity Engine and C# to build polished, functional mobile applications

Customer Service Representative | Vapeur de l'Ouest, Vaudreuil | Aug. 2018 – Present

- Applied a customer-centric approach to understand and fulfill client needs, demonstrating strong interpersonal skills
- Troubleshoot and resolve hardware and software issues for end-users
- Provide technical support for users via phone and email
- Conduct regular backups and disaster recovery testing
- Maintain inventory of hardware and software assets and order new equipment as needed
- Train users and newcomers on new software and hardware systems

Education

John Abbott College, Mobile Application Programming – Gradutated 2023

- Attestation d'études collégiales program with specialized hands-on training in mobile application development.
- Established comprehensive skills in native and web-based app development for iOS and Android
- Learned industry best practices in software development and engineering

Projects

Waddle Runner, John Abbott College 2023 – Game Developer

- Developed a full-fledged game using Unity Engine and C# around a penguin that runs around to capture fishes and uses them to buy cool-looking hats
- Used tools such as Universal Render Pipeline, Mechanim animator, ShaderGraph, Input System, State Machine, CineMachine, and Serialized Save State
- Learned game architecture, design patterns, and best practices in game development

Mr. Robot, John Abbott College 2023 – Cybersecurity Project

- Completed comprehensive Capture The Flag (CTF) challenge by identifying and exploiting system vulnerabilities
- Utilized professional cybersecurity tools including Nmap, Metasploit, and John the Ripper
- Demonstrated ethical hacking skills and advanced penetration testing techniques

AWS Connection, John Abbott College 2022 – Back-end Developer

- Developed scalable Python-based AWS application with MongoDB integration
- Implemented robust CRUD operations with optimized database schema
- Managed project documentation and collaborative development using Git
- Conducted rigorous testing and debugging for reliability.

Accomplishments

Dean's List, John Abbott College

- Named to the Dean's List for two semesters (Winter and Fall) for maintaining an average of 80% or higher