



WHO AM I?

Canadian Software Developer with 20 years of experience in video game programming, scientific modelling and cross-platform development. Expertise in multiple programming languages, game engines and SDKs. Proven track record in leading teams, mentoring developers, impressing customers and building corporate culture. Strong background in C++, Unreal Engine, iOS and Android using agile methodologies and CI/CD. Passion for algorithmic correctness, mathematics, artificial intelligence and nature.

EXPERIENCE	
Jan 2025 – present	Technology Instructor Develop and deliver interactive course materials for 50+ students per term, Manage and update a GitHub repository hosting open-source course materials, Host live coding sessions, debugging student projects in real-time and archiving recordings for asynchronous review, Participate in ongoing professional development, including monthly instructor training seminars. C# / Databases / ASP .Net Core / Front End Frameworks / Javascript / Java / GitHub / Azure
2022 - 2025	Senior Software Developer Developed and maintained cross-platform client API for BaaS to add gamification and real-time multiplayer tech for AAA and Indie Studios. Developed and released demo games and projects. Engineered and maintained CI/CD and TDD pipeline. Responded to customer issues and feature requests. Unreal Engine / C++ / Objective-C / Swift / iOS / Android Native / Java / PlayStation / Node.js / Groovy / C# (Unity, Godot) / Shell Script / MacOS / Windows / Linux
2011 - 2022	Co-founder/ Lead Developer Designed, coded and published nine games to commercial app stores for mobile devices. Experimented with cutted edge device tech and SDKs. Unreal Engine / Objective-C / Swift / iOS / Android Native / Kotlin / Augmented Reality / MacOS / Windows
2008 – 2011	Tools Programmer Fekete Associates Inc. (S&P Global) Developed tools used mathematical modelled to maximize production and improve efficiency for major oil & gas corporations. Led research on a new system that reduced build times by 40%. C++ / MFC / Windows
2005 – 2008	Intermediate Software Engineer Visualised in-line device data with OpenGL graphics. Implemented neural network algorithms for anomaly detection. Led development of custom web-based GIS reported software. Improved low-level programming algorithms for data processing. C++ / C / OpenGL / PHP / SQL / Neural Networks / Borland / Windows / Linux
2005 – 2008	Co-founder / App Developer / Instructor Created and published physics-based games for iOS. Technical writing, web development, google maps and firebase integration and server administration. Developed course curriculum, instructed C++ programming and assessed student work with Department of Continued Education. C++ / C / OpenGL / PHP / SQL / Neural Networks / Borland / Windows / Linux
2005 - 2006	Software Researcher / Lead Developer Lead developer and system administrator for an iTunes like music store. Automated DRM encoded and video streamed. Developed a prototype for a Google competitive search engine. C++ / PHP / Javascript / .NET / Windows / Linux

2004 - 2005 Junior Software Engineer

Codefast.com

Ported applications to operate under a new GUI library. Developed user interfaces for software life-cycle automation.

C++ / Shell script / Windows / Unix / Qt / Wx

2001 - 2004 Research Assistant

VLab Computer Graphics Group / Artificial Intelligence Research Hub

Developed graphics software tools used fractal math and biological modelling. Managed network setup and code base for distributed computing. Participated in interdepartmental projetcs, published five research papers, led student tutorials and marked assignments.

C++ / OpenGL / Solaris / MacOS / Unix / Linux / PHP / MySQL / Qt

EDUCATION

2002 - 2004 Master's Degree University of Calgary

Computer Science

Thesis Title: Agent-based Development of Natural Transportation Networks

1998 – 2001 Bachelor's Degree University of Calgary

Computer Science

AWARDS

Departmental Nomination: Governor General's Gold Medal, Faculty of Graduate Studies, 2005

Postgraduate Scholarship NSERC D3, Natural Sciences and Engineering Research Council of Canada, 2005

Graduate Student Scholarship, Alberta Learning, 2004

• Best Student Paper Award (Co-author), ACAL, 2003

• CPSC Departmental Research Award, University of Calgary, 2003

LANGUAGES

English - native French - intermediate Spanish - rudimentary

WORK SAMPLES

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github.com: xcodegirl/career.

PUBLISHED GAMES

- Ragin' Bull iOS, Android (2020)
- AR Picture Portal iOS (2018)
- Fragment Reality iOS (2018)
- IceCream AR iOS (2018)
- Jewel Slide iOS, Android (2017, 2019)
- Word Slide & Find iOS (2017)
- A Word Theme iOS, Android (2017, 2019)
- CryptoQuip iOS, Android (2011, 2019)
- Rafter's Loot iOS (2011)
- Star Chase iOS (2008)
- Bitsy iOS (2008)