

# Martin Ouimet

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## SKILLS

**Artificial Intelligence  
Programming  
Typescript  
React  
Serverless  
Microservices  
Frontend  
Event Driven  
Crypto/Blockchain**

**Prompt Engineering  
Solution Architecture  
Cloud Architecture  
Azure, AWS, Google  
OpenShift/Kubernetes  
Design UX/UI  
CI/CD  
TDD/DDD**

## EDUCATION

**Software Engineering**

École de technologies Supérieure (ÉTS)

**Finance and Economics**

Hautes Études Commerciales (HEC)

**Programmer Analyst, College Degree**

Collège CDI

**Financial Advisor / Broker, College Degree**

Matane College

**Internship Master**

Collège Bois-de-Boulogne

## PROFESSIONAL EXPERIENCES

**External Infinisoft Inc., Solution Architect, Full Stack Developer, Team Leader**

2020-2023

- Mandate: iBrain Micro-Application Ecosystem
- Project: An innovative software platform that brings together a powerful array of technologies to create a versatile and dynamic microservices-based architecture. This ecosystem is designed to meet the demands of modern businesses seeking to harness the power of Artificial Intelligence (AI) and Natural Language Processing (NLP) in their applications.
- Role:
  - System architecture
  - Business analysis
  - Design & functional analysis
  - Source code Implementation
  - Code review
  - Team coaching
  - Project management
  - Kanban method Quality Backlog planning
  - Control, Unit Test, integrations, regressions, e2e, UAT
  - Technical documentation writing
- Technologies:
  - Artificial Intelligence, Large Language Model, Prompt Engineering, Natural Language Understanding, React 16/17/18, Kubernetes, OpenShift, Ketcloak, Jest, AWS, Azure, Serverless & Compute, Virtual Private Cloud, Lambda, API Gateway, CloudFront, S3, Amplify, CloudWatch, Route 53, VTL, OpenAPI 3.0, Swagger, Circle CI, npm Packaging & libraries, Micro Front-End Module Federation, UmiJS, CRA, Micro Services, Event Driven, Streaming & Real time, Progressive Web App & Service Workers, Location & Geo Fencing, Cognito & OAuth Web Federation Security, JWT, Web 3.0, Code Commit, GitHub, Code Pipelines, Code Deploy, NoSQL, DynamoDB, Mongo dB, NodeJS , Express, Typescript/JavaScript, DevOps pipeline, CI/CD, Heroku, Bitbucket, SonarCloud & Static Code Analysis, Dependency injection, Design, patterns, Rest API, Material-UI, Antd

## PROFESSIONAL EXPERIENCES

### External Infinisoft Inc., Full stack web developer

2019-2020

- Mandate: Business Development Bank of Canada
- Project: High Risk Concerns / Dynamics CRM 365 CLICS
  - Risk analysis tools for loan approval business decision making
  - Money laundering Prevention
- Role:
  - Code source implementation
  - Analysis and design, test cases, unit tests, regression test
  - Technical Writing documentation
- Technologies:
  - C#, .NET Framework 4.6 and 4.7, Dynamics CRM, JavaScript/TypeScript, jQuery, AJAX, SASS, CSS, Azure DevOps, TFS, DevOps Pipeline, SOAP, Web Services, SOA, REST API, UML, MVC, JSON, XML, SQL Server, Unit testing (MS Unit and XUnit) and regression, Git

### External Infinisoft Inc., Full Stack Web Develop

2018-2019

- Mandate: Center RX Inc.
- Jumbotron Project
  - This project consisted of developing 2 new EPI Server blocks for managing Jumbotrons visuals throughout the website. Function for displaying pages in mobile version and adapting the existing desktop version has been implemented. Also, a conversion tool has been developed to convert the 50,000 pages of the site with the new features.
- Project: Adding features and supporting the jeancoutu.com website and its 30 sub-applications
  - 30 team members
  - 7 months development
- Role:
  - Source code implementation
  - Analysis and design, test cases, unit tests, regression test
  - Technical Writing documentation
  - Coordination Production (Pull Request, Build, Release, QA, Sage, Preprod)
- Technologies:
  - Team Foundation Server, Git, Visual Studio, Source Tree, C#, ASP.NET, .NET Framework, .NET Core, JavaScript, jQuery, .NET, AJAX, CSS, SASS, Bootstrap, SOAP, Web Services, WCF, SOA, REST API, Google API, UML, EPI Server CMS, MVC, JSON, XML, IIS, SQL Server, SQL Reporting Services, SQL Integration Services, Unit Testing and Regression, Continuous Integration, Azure DevOps, Windows Server, AngularJS, Mango DB, ExpressJS, Postman, Fiddler, NodeJS, Selenium

### External Infinisoft Inc., Full Stack Developer

2015-2018

- Mandate: ABC Gestion Parasitaire Inc.
- Project: Development of Microsoft Dynamic CRM/XRM/NAV ERP software
  - 4 team members
  - 2 development years
  - \$400,000 costs development
- Role:
  - Code Implementation, Design, Test cases, unit tests, effort and cost estimation
  - Translate business requirements into functional analysis and technology solutions
  - Schedule planning and team lead
  - Writing SRS (Software Requirements Specifications)
  - Business Analysis
  - Scrum Master / AGILE / Matrix Project Management
  - Implementation of ISO 29110/14764/12207 standards (processes in software development and maintenance)
- Key solution features:
  - Operations

- Integrated route management and optimization with Google Maps
  - Work order, Appointment, Products and Services Management (PIM) (MS Dynamics)
  - Electronic signature, security, in mobile interface (Android Tablet)
  - Scheduling, roadmap, timesheet for employees
- Management of sales, contracts, accounting
  - Quotation, Invoicing and integration of Finances with Dynamics NAV
  - Customers opportunities management
- Technologies:
  - Microsoft Dynamics CRM/XRM/NAV, C#, JavaScript, jQuery, .NET, AJAX, CSS, Bootstrap, SOAP, Web Services, SOA, REST API, Google API, UML, MVC, MVVM, ASP.NET, JSON, XML, Visual Studio, Team Foundation Server, SSL, IIS, SQL Server, SQL Reporting Services, SQL Integration Services, Unit and Integration Testing

## **Full stack software developer and Windows team project manager**

2013-2015

- Client: ScopServ International Inc.
  - ScopServ International Inc. is one of the world's pioneers in IP telephony design solutions (VoIP). They provide communications solutions and services to small, medium, large businesses and call centers with their ScopTEL IP PBX product.
- Project: VOIP application Development portfolio
  - 10 team members
  - 2 development years
  - \$500,000 costs development
- Role:
  - Code Design implementation, test cases, unit tests, effort and cost estimation
  - Business Analysis
  - Scheduling and leading Windows software team
  - Writing SRS (Software Requirements Specifications)
  - India Outsourced development Supervision and quality control
  - Implementation of ISO 29110/14764/12207 standards (process in software development and maintenance)
  - Scrum Master / AGILE / Matrix project management
- Significant software development:
  - ScopDial - <https://www.scopserv.com/fr/produits/logiciel/scopdial/>
    - Integration with Microsoft Outlook
    - Calling Outlook or Windows contacts with a click
    - Screen Warning during incoming call
    - warning
  - ScopAD- <https://www.scopserv.com/fr/produits/logiciel/scopad/>
    - Microsoft Active Directory Extension schema to support ScopTEL IP PBX
    - Active Directory Users Integration and console Computers management
    - console ADUC ScopTEL telephone extension Creation
    - ADUC ScopTEL IP PBX user management
  - ScopDev console - <https://www.scopserv.com/en/products/software/scopdev/>
    - ScopTEL development API software developers
- Technologies:
  - VB.NET, C#, C++, MMC Console Add-in Extension, Active Directory, LDAP, JavaScript, jQuery, .NET, PHP, Apache, AJAX, CSS, Web Services, SOA, REST API, Linux Ubuntu, Outlook Add-in, UML, MVC, MVVM, ASP.NET, JSON, XML, Visual Studio, SSL, IIS, SQL Server, MySQL, Unit and integration testing, Linux daemons, DevOps, Jira, Bitbucket, Confluence, Bamboo, Source Tree

## PROFESSIONAL EXPERIENCES

### Full Stack Software Development

2008-2013

- Client: Ambrosie Mirabel
- Project: GSP ERP software
  - 2 team members
  - 2 development years
- Role:
  - Software design and development
  - Client prospecting
  - Matrix project management
  - Business Analysis
  - Implementation of ISO 29110 standards /14764/12207 (software development and maintenance process)
- Functionalities
  - maple production operations Management
  - Sales management
  - Point of sale (POS)
- Technologies:
  - VB.NET, SQL Server, UML, Git

### External Project Manager and Analyst

2006-2008

- Client: Dorval-Lachine-LaSalle Health and Social Services Center
- Project: Technological infrastructures design Consolidation
  - 10 team members
  - 2 years of implementation
  - \$2,500,000 budget
- Role:
  - Lead and plan CSSS Dorval-Lachine-LaSalle 4 IT consolidation services
  - Schedule Plan and team lead
  - Production infrastructure Audit architecture design target
  - Project management and required efforts estimation / Matrix project management
  - Operations Supervision
  - IT management ITIL ISO 20000 standard Implementation
  - Systems and equipment Installation
  - Security Asset Management Responsible
    - <http://www.santecom.qc.ca/Bibliothequevirtuelle/santecom/35567000074424.pdf>
- Achievement
  - Merger of 4 independent IT services and single help center creation
  - Production infrastructure Parallel migration architecture target
  - Servers center with more than 200 servers Construction
  - 10 satellite servers
  - 15 telecommunication rooms
  - provincial electronic medical imaging systems Implementation
- Technologies:
  - Windows Server 2003, 2012, Active Directory, GPO, DNS, DHCP, Cisco IOS, LAN, WAN, Fiber Optic, SQL Server, Picture Archiving Computerized System, Remote Software and OS Deployment, Kixstart Scripting, WMI, VBS, Virtualization with Hyper-V and VMWare, High Availability, Redundancy, Rackmount Physical Architecture, IBM Server, HP Switching, RTSS Connection on Fiber Optics,

## PROFESSIONAL EXPERIENCES

### External Senior Information Technology Advisor

2004-2006

- Clients: Center Hi-Fi
- Major project: technological infrastructure design Consolidation
  - 4 team members
  - 1 implementation year
  - \$175,000 budget
- Role:
  - Proposed solution Design
  - Planning Schedule and team lead
  - Production infrastructure Audit architecture design target
  - Project management and required efforts estimation
  - Operations Supervision
  - Technological infrastructures Implementation
  - Systems equipment Installation
- Achievements:
  - 36 retail point of sales running on remote thin client
  - Centralized infrastructure on "Microsoft Terminal Server technologies
  - Data Center Design and installation
  - 36 VPN
- Technologies:
  - Windows Server 2003, Active Directory, GPO, DNS, DHCP, Cisco IOS, LAN, WAN, Fiber Optic, SQL Server, WMI, VBS, High Availability, Redundancy, Rackmount Physical Architecture, IBM Server, HP Switching, Terminal Servers, ADSL, ISDN, T1, Thin Clients, NetScreen Tunneling

### Network and system administrator

2002-2004

VO3 Technologies, Montreal

- Equipment installation
- Technical support Level 1 and 2

## DETAILED SKILLS

### Software development

JavaScript, Typescript, ASP.NET, C#, CSS, SASS, LESS, JSDOM, HTML, XML, JSON, C, C++, Java, VB.NET, VBS, VBA, WSH, WMI, x86 Assembly, Kickstart, PHP, ASP.NET, MATLAB, Microsoft Visual Studio, Eclipse, IntelliJ, Maven, Trac, Team Foundation Server, Git, Visual Paradigm, AJAX, EPiServer CMS, WCF, Azure DevOps, Jira, Bitbucket, Confluence, Bamboo, Python, Fiddler, Postman, Selenium, Kantu

### Advanced

Abstract Syntax Tree, Meta programming, Runtime Code Injection, Module Federation, VS Code Extensions, Webpack 4 / 5, Babe Parser Transform Corel, Rollup, React, Fiber, Node & Scheduling Algorithm

### Frameworks

React 16/17/18, React Router 4/5, @brainstack, jQuery, Bootstrap, .NET Framework, .NET Core, Code Ignitor, Google API, SAX, JXLS, Junit, AngularJS, ExpressJS, NodeJS, Jest, Express, Mongoose/Type Goose, Material-UI, Antd

### Crypto/Blockchain

Solidity, Ethereum, OpenZeppelin, Hardhat, Ganache, Truffle, dApp, DAO, NFT

### Quality Control

Test Cases, Unit Tests, Testing integration, regression testing, QALab, SonarQube

### Software design & architecture

AWS, NoSQL Access Patterns, Functional & Composition Design, UML, MVC, MVVM, REST API, SOAP, OOP Design Patterns, Reflexivity, Dynamic dependency injection, functional analysis, Business analysis, Impact analysis, Reverse engineering, Reengineering, Continuous integration

### International

Standards ISO 14764, ISO 29110, ISO 12207, ISO 20000, ITIL

### Telecommunication

TCP Advanced IP, OSI model, Structured CA Switching and local networks, VLAN 802.1q, QoS 802.1p, LACP 802.3ad, IGMP, Routing, VOIP

### Project management

Microsoft Project, AGILE, SCRUM, Matrix project management, Microsoft Visio, Word, Excel, PowerPoint, Outlook, Google Docs, Sheets, Slides

### ERP

SAP, Microsoft Dynamics CRM, Great Plains, Simply Accounting, Sage 50

### Firewall and Specialist Microsoft

NetScreen Security, Cisco Pix, SonicWALL, Fortinet, VPN, PKI, SSH, Wireshark, Nmap, Active Directory, DHCP, DNS, WINS, WDS, RDP, RRAS, GPO, Remote Software Deployment, WSUS, Hyper-V and High Availability Virtualization

### Databases

NoSQL, DynamoDB, SQL server, SQL Reporting Services, SQL Integration Services, MySQL, Access, FileMaker Pro, MongoDB

### Sciences

Analytical chemistry Newtonian physics Differential and integral