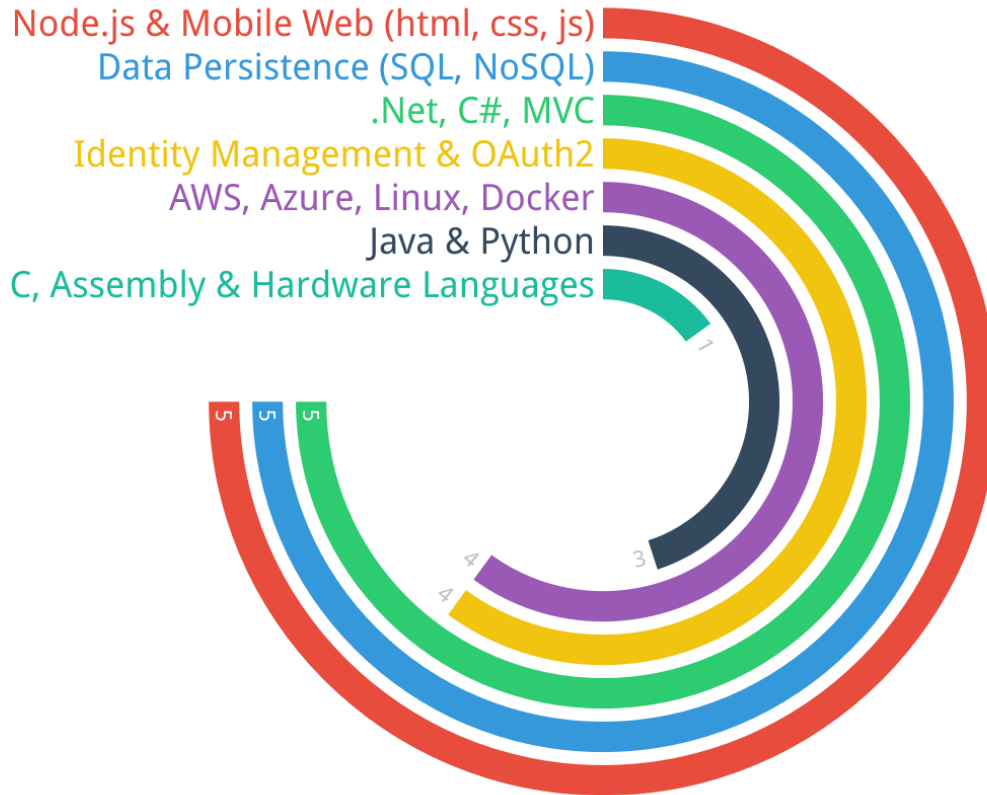




Mark Carrier

m@markcarrier.info
(514) 224-2409
Montreal, QC Canada

A senior “full-stack” web developer who focuses on
→ solving problems from the end user’s perspective,
→ building simple and sustainable designs,
→ continuously improving his designs and his skill sets.



Education

Bachelor of Electrical Engineering,
McGill University, Montreal, QC
With specialization in telecommunications.

April 2008

Diploma of collegial studies in Pure and Applied Sciences,
CÉGEP de Trois-Rivières, Trois-Rivières, QC

May 2003

Work Experience History

Software Architect, Team Leader
PowerSchool Canada, Montreal, QC (remote worker)

January 2017 to present

- Leading a team of 7 in the design, development and maintenance of an identity management platform that provides a unified login experience across multiple products to millions of students, parents and teachers.
- Leveraging the Ping Identity platform to provide **OAuth2**, **OpenID Connect** and SAML services to software teams and large scale clients with very high security requirements.
- Using **node.js**, **TypeScript**, **Kafka**, **Docker**, **Kubernetes** and **AWS** to build highly scalable and highly available software services.
- Supporting the organization’s efforts to migrate to Agile & **Scrum** by training staff and implementing new approaches to planning and estimation.

Software Developer, Team Leader, Development Manager
SRB Education Solutions, Edmonton, AB & Montreal, QC (remote worker)

August 2008 to Jan 2017

- Built innovative web & mobile products in the education sector using the .Net framework.
 - Designed and developed a new leading edge outcomes based assessment tool to replace traditional grading systems using **.Net MVC** and Domain Driven Design.
 - Designed and developed a technology platform that integrates multiple SRB products (Java, .Net) into a unified mobile optimized user experience using **RESTful APIs** and **OpenId**.
 - Designed and developed a mobile responsive custom forms platform using .Net MVC and **backbone.js** as part of a very successful online student registration product for school districts.
- Managed an agile team of 4-5 developers responsible for developing and supporting multiple products used by tens of thousands of teachers, parents, students and school administrators.
- Supported dozens of client installations and SaaS.
- Migrated team process from traditional project management to **Agile/Scrum** and acted as **product owner** for multiple products. Also participated in the development of the company's strategic plan and roadmap.
- Supported the sales organization by participating in demonstrations at customer sites.

Software Developer, Systems Integration Engineer Intern,
Nortel, Montreal, QC

May 2006 to June 2008

- Developed integration software for optical network management systems compliant with TMF814 standard using **Java SE**.
- Worked within a small consulting team using Agile development principles.
- Supported carrier class customers in the deployment of network management products and solutions.
- Wrote technical documentation and trained new employees and customer support staff.
- Worked with Nortel optical and data hardware.

Skills

Spoken & Written Languages Fluent in English, French and Spanish.

Core Programming Skills JavaScript/ES6/node.js, C#/ASP.Net, Java, Python, MSSQL, MySQL, Responsive Design/Mobile, OAuth2, OpenId Connect, Bootstrap, JQuery, backbone.js, JSON, NoSQL/CouchDB, Microservices, REST.

Preferred Tools Linux, Git, Docker, AWS.

Other Skills Azure, Linux, Windows Server, IIS, Assembly, VHDL

Projects & Interests

Otomotion (2006) Small research company self-started with fellow engineering student. Well received by Nortel employer. Worked on projects in the following areas:

- Applied Robotics using a Motorola micro-controller programmed in C
- Wireless mobile client solution built on smart device using C# (Windows Mobile)

Personal projects <https://github.com/SrGrieves>

Photography I worked in the imaging industry for a number of years. I now enjoy photography as a hobby. <https://www.flickr.com/photos/markcarrier/>

Other I enjoy technical writing. It is a skill that I am constantly trying to improve. I also enjoy teaching others. I speak before an audience on a regular basis.