

# Richard Carson

Software Developer

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A Carleton software engineering graduate and Algonquin alumni with 9 years of industry experience. Combines the leadership skills and proactive problem-solving of engineering with excellence in programming and software design. Proven reliability and enthusiasm towards the design, development, and deployment of software.

## Education

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### Bachelor of Software Engineering (Carleton University) 2013 - 2017

A four-year engineering degree encompassing many areas of study including:

- DevOps
- Agile development
- Embedded systems programming
- Mobile and web development
- Software systems design
- Mathematics and science
- General engineering principles

The program culminated in a year-long capstone project: our team designed and developed a gesture-controlled guestbook which leveraged the Microsoft Kinect to capture and interpret a user's handwriting as they wrote in the air.

### Computer Science Engineering, Computing Science (Algonquin College) 2010 - 2013

A three-year advanced degree involving:

- Technical communication skills
- Embedded systems programming
- Compiler architecture
- Mobile and web development
- COBOL programming

The program's final year included a project designed to use our accumulated skills. Our team developed a mobile application for wall-mounted tablets designed to give directions to locations on campus, as well as classroom schedules.

### High school (E.S.C. Garneau) 2010 - 2013

The final two years of high school involved a specialisation program called Focus. This program involved college-level programming and IT related courses.

In 2010, I won gold in the provincial and national Technological Skills Competition, in the Information Technology category. This involved server setup, advanced network setup, and programming.

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## Work

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### Software Developer (Secure Technologies International) 2009 – Present

As the company's sole software developer, I was responsible for the design, development, maintenance and deployment of software for use internally, and by clients. Other responsibilities included:

- Coordinated and executed the design, development and deployment of the company's invoice, support and sales management system
- Performed system maintenance, upgrades and end-user support for business-critical software systems
- Created software for government clients under a professional service contract
- Designed, maintained and developed for MySQL and MSSQL databases
- Created web, desktop and command-line tools in Python, PHP, C++, C# and JavaScript
- Used DevOps technologies, including automated testing and deployment tools

### Systems Administrator (Secure Technologies International) 2009 – 2011

As systems administrator, I was responsible for the installation, configuration and maintenance of servers. Additional responsibilities included:

- Performed hardware and software setup of servers and desktops
- Configured and maintained Linux and Windows servers
- Performed network and systems administrative duties
- Responded to internal support tickets

## Skills

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### Programming Languages

- **C** Algonquin College, Carleton University, Personal projects
- **C++** Algonquin College, Carleton University, Secure Technologies International, Personal projects
- **C#** Carleton University, Secure Technologies International, Personal Projects
- **COBOL** Algonquin College
- **Java** Algonquin College, Carleton University
- **Javascript** Carleton University, Personal Projects
- **PHP** Algonquin College, Carleton University, Secure Technologies International, Personal Projects
- **Python** Carleton University, Secure Technologies International, Personal Projects
- **Ruby** Carleton University, Personal Projects

### Version Control Tools

- **Git** Carleton University, Secure Technologies International, Personal projects
- **Github** Carleton University, Personal projects

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## DevOps Tools

- **Docker** Personal projects
- **Travis CI** Carleton University, Personal projects
- **Maven** Carleton University

## Other Tools

- **ESXi** Personal projects, Secure Technologies International
- **Gitlab** Personal projects

## Certifications

- **CompTIA A+** 2009
- **McAfee Firewall Administration** 2010
- **Fortinet FCNSA** 2010
- **Secret Level Security Clearance**