## Robert Nijkamp

### Personal Data:

Address: London, Ontario, Canada

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### Profile:

I am a hands-on, highly competent, very hard working Development Manager and Software Engineer with 15 years’ experience designing, programming and testing software across a variety of platforms. I have worked on numerous projects from concept to completion. A specialist in C++, C#, MVC, I take pride in coding to consistently high standards and regularly refresh my skills to ensure I keep up with ongoing developments.

I am also very proficient with managing multiple customers and projects, scheduling development resources, and communicating with clients. I have frequently been asked to represent partner companies when working with 3rd party integration.

I enjoy mentoring smart and inquisitive people and prefer to consider input from the group rather than dictating. My personal experience has shown this to be a much more effective way to engage developers where they enjoy working in the architecture we design together.

### Skills Summary:

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| --- | --- | --- |
| **Technology** | **Level** | **Memo** |
| **Programming** |  |  |
| C# | Professional | 10 years’ experience. MVC 4, API controllers, runtime dependency injection |
| JAVA | Professional | 3 years’ experience |
| C, C++ | Professional | 10 years’ experience |
| HTML, HTML5, CSS, Less CSS | Professional |  |
| Python | Intermediate |  |
| Ruby, Perl | Some experience |  |
| JavaScript | Professional |  |
| Node.js | Professional | Express, Mongoose, jade, mailer |
| Delphi / Lazarus | Professional |  |
| Git | Professional | Command line preferred |
| CVS, SVN, StarTeam, TFS | Professional |  |
|  |  |  |
| **Frameworks / Libraries** |  |  |
| jQuery | Professional |  |
| AngularJS | Professional | Modules, services, directives, controllers, filters, i18n |
| Bootstrap | Professional | Responsive UI development |
| Google Analytic integration |  | Page and goal tracking |
|  |  |  |
| **Database** |  |  |
| MS SQL | Professional | t-SQL, stored procedures, extended stored procedures, triggers, schema design and normalization |
| MySQL | Intermediate |  |
| PostgreSQL | Intermediate | PL/SQL |
| MongoDb | Intermediate |  |
| Oracle database | Some experience |  |
|  |  |  |
| **Operating Systems** |  |  |
| Windows (all desktop editions), Server 2003, Server 2008 | Professional |  |
| Linux | Intermediate | Ubuntu, Kubuntu, ElementaryOS, Angstrom |
|  |  |  |
| **Software Suites** |  |  |
| Redmine | Professional |  |
| JIRA | Intermediate |  |

### Education:

**Westervelt College** - 1999

Computer programming: Honor roll, dean’s list

### Employment History:

***STEP Networks***

Senior architect / Software development manager

April 2008 – Present

* Developed and maintained custom firmware used to dispense consumer propane in a vending machine. This machine utilized custom hardware and software that would drive pneumatic relays and take readings from other measuring devices. Additional software included a suite of server side software responsible for monitoring transactions, inventory, raised events, and a mobile device responsive website. An entire test suite was also built to allow us to switch between physical hardware and virtual hardware. This included virtualization of the POS device, printer, and pneumatic controller.
* Designed and built STEP Forms; another highly dynamic rendering framework written in C++ to allow generation of multiple UI outputs for a single data file input. STEP Insure was developed to use STEP Forms as its rendering component for complex questionnaires as well as dynamic filter triggers and complex reports.
* Designed and built low level frameworks in C# to enable runtime dependency injection, logging suites, C to C# API’s utilizing handle stacks similar to this used by Microsoft Windows to allow for dynamic data exchange between languages.
* Developed several mobile applications for platforms such as iOS, Blackberry, and Android.
* Working with Fanshawe College, with the interviewing and hiring of co-op students, as well as participating in College Advisory Committee meetings.
* Designed and built a highly dynamic website that was able to render dynamic and complex questionnaires for the insurance industry. This software was awarded the 2010 CSIO Annual Achievement Award as well as the 2011 IASA Technology Innovation Award (this also marked the first time a Canadian technology company had received this award).
* Worked with Moneris to implement online transactions (via Hosted Tokenization) as well as Point Of Sale transactions. I was also involved with PCI compliance certification for storage of sensitive data and customer receipt generation.
* Developed a Single Sign On solution using Shibboleth for OTIP (Ontario Teachers Insurance Plan).
* Worked with Autodata to incorporate the functionality of an application they acquired during a merger into their flagship desktop application. I was responsible for identifying the needs of all companies, design, and ultimately build a solution that would allow the application to be used by customers of both companies.

Senior software developer / architect

April 2005 – April 2008

* Was part of a team that developed the decryption and watermarking for Christie Digital cinema digital projectors to ensure that the film distributor received payment when to movie was decrypted.
* Was part of a team that used Bluetooth object exchange (OBEX) to communicate with phones of our client’s potential customers to present advertising and other promotional information.
* Worked with Aecon and Enbridge Gas to create an alliance partner B2B system that would allow Aecon to receive electronic work orders and later submit completed work orders to trigger billing events. Our ability to design an effective and efficient system allowed Aecon to become a preferred vendor and active participant in ongoing system development with Enbridge Gas.
* Maintained the entire work force management software suite for Aecon.
* Worked with Economical Insurance to create an online quoting system. Later became a preferred vendor due to our expertise, project success, and effective communication.
* Developed a server side validation system utilizing Google V8 to eliminate the need to re-implement client side validation rules and data sanitation on the server. This greatly reduced testing complexity and time to production.

***Autodata Solutions Company***

Software developer

March 1999 – April 2005

* Co-designed and built a PC application used by automotive dealerships as a sales tool that would allow a user to configure an automobile (while adhering to the complex configuration logic of package and option selection). This application, utilized 360 degree image presentation, multi-lingual support, and a complete custom theme and features engine.
* Was part of the team involved in building Ford’s Online Ordering System for F650, F750, and Low Cab Forward Trucks. This was a monumental task that integrated with Ford’s internal systems from end- to-end using various operating systems and technologies. It was delivered with great success, positively impacting Ford and its dealerships. This system is currently in use today and is the only way an order can be submitted.
* Maintained several flagship desktop applications.
* Developed a UI skinning engine and editor that was used by the graphics department to generate customized UI themes. This allowed a single application to be branded completely differently for General Motors, Jaguar, Chrysler (including Jeep and Dodge), Ford, and other vendors. This engine also controlled the application features available to the vendor using an encrypted and digitally signed file making it tamper proof. The allowed a single application (with a single QA pass and development stream) to serve the needs of many customers; greatly reducing development and maintenance costs.

### Hobbies:

* Computer software and hardware. Raspberry Pi, BeagleBone, breadboard development, custom circuits.
* Learning new software languages and patterns.
* Cars, motocross, airplanes.
* Travelling and camping.