Nick Riebeek

SOFTWARE DEVELOPER

An experienced full stack software developer specializing in the design of elegant and simple solutions with a focus on maintainability. Strong problem solver and highly motivated professional with effective communication and team building skills. A passion for continuous learning and personal development.

CONTACT
Location: Toronto, Canada
Email: nick.riebeek@gmail.com
Cell: 416-994-2841
Blog: https://experimentingwithcode.com
GitHub: https://github.com/riebeekn
LinkedIn: https://ca.linkedin.com/in/nickriebeek

TECHNICAL SKILLS

Languages: C#, Elixir, Ruby, HTML, JavaScript, jQuery, CSS, XML

Databases: MS SQL Server, Postgres, Oracle, T-SQL, PL/SQL, PL/pgSQL

Frameworks: .NET, ASP.NET MVC, Phoenix, Ruby on Rails, MS Entity Framework, MS WCF, Bootstrap, familiarity with various JS frameworks

Concepts / Techniques: Object Oriented Design, Relational Database Design, Functional Programming, Unit Testing, Dependency Injection

Tools: Visual Studio, VSTS, TFS, Git, AWS, Azure, NUnit

STRENGTHS

- Strong communication and interpersonal skills.
- Work efficiently in team and individual environments.
- Highly motivated, conscientious and honest.
- Open and adaptive to change in the workplace.
- Commitment to continuous learning and development.

EDUCATION

- University of Alberta, Bachelor of Science with Specialization in Computing Science
- St. Francis Xavier University, Bachelor of Music with Specialization in Jazz Performance

EXPERIENCE

Elixir Developer (Contractor), *Uptrend Technology, Mar 2019 - Aug 2019*

- Main tasks involved back-end API development with Elixir and Phoenix.
  - Primary development projects:
    - https://app.healtherides.com - An Uber-style application to facilitate non-emergency medical transportation for patients in the Los Angeles and surrounding area.
    - https://www.soworganic.com - An online organic certification portal for both organic certifiers and producers.
- Researched and integrated a 3rd party scheduling application into Health-E Rides, replacing a manual process. This resulted in significant time and cost savings for the client.
- Created a user management API for administration of Health-E Ride users.
- Updated and refactored existing Terraform scripts for provisioning application infrastructure. This resulted in a much cleaner, more stream-lined and understandable process for provisioning environments.
- Provisioned additional QA environments to aid in application testing and to provide an acceptance testing environment for key customers.
- Created custom Terraform scripts and Docker images for setting up Prometheus application monitoring.
  - Customized Grafana dashboards and Prometheus alerts.
  - Used the aforementioned Terraform scripts to provision a Prometheus environment on AWS.

ENVIRONMENT AND TOOLS

- Elixir
- Phoenix
- PostgreSQL
- Terraform
- Docker
- AWS
- Git
- GitHub
- CircleCI

EXPERIENCE (CONT.)

Senior Developer, *Questionmark Computing, Feb 2007 - Dec 2018*
- Instrumental in the development of a number of core Questionmark products including Questionmark's reporting and authoring engines: Questionmark Analytics (https://www.questionmark.com/content/questionmark-analytics) and Questionmark Authoring (https://www.questionmark.com/content/distributed-authoring-and-item-management).
- Integrated these products with existing legacy database and code components.
- Involved in all aspects of application design and implementation, including project planning / architecture, technology evaluations, database design, service-layer architecture and design.
- Helped develop and maintain a custom ETL application.
- Developed initial test automation scripts for Questionmark's reporting feature set which resulted in a significant decrease in release times and bug count.
- Developed, maintained and provided support for a migration tool to move customer data from a legacy authoring tool to Questionmark's latest authoring tool.
- Enhanced and expanded existing WCF service API's to provide external access to Questionmark data.
- Helped develop, document and maintain internal tools and processes.
- Periodically took on a team lead role, led planning and related scrum meetings.
- Improved maintainability of existing applications via refactoring and extraction of legacy components into discrete libraries.

ENVIRONMENT AND TOOLS
- C#
- .NET
- ASP.NET MVC
- HTML
- CSS
- JavaScript
- jQuery
- AJAX
- Microsoft WCF
- Microsoft Entity Framework
- SQL Server
- SQL Server Profiler
- Oracle
- T-SQL
- PL/SQL
- Microsoft Enterprise Library
- WatiN
- Selenium
- NUnit
- PowerShell

Application Developer, *ATCO I-Tek, Jun 2006 – Feb 2007*
- Provided late stage development and support for the GM-TIS Gas Management System; a distributed, enterprise level system to provide Gas Analysis and Pipeline information to end-users.
- Main areas of responsibility included the support and development of data imports, data migration, and final development and clean up of the Gas Analysis module.

ENVIRONMENT AND TOOLS
- C#
- .NET
- Windows Forms
- Web Services
- Oracle

System Analyst, *Alberta Department of Energy, Oct 2005 - Jun 2006*
- Member of the Software Architecture Group for Alberta Energy's Information Technology Re-Investment Initiative (RII). The RII involves a complete re-write and re-design of all DOE applications with a focus on a tiered architecture and common development standards.
- Created a number of prototype applications to explore various technologies for use in the RII. Some of these technologies included:
  - Object Relational Mapping tools such as nHibernate and iBatis.
  - The various components of the Microsoft Enterprise library, specifically the Data Access and Security Application Blocks.
- Created an initial "Developer's Guide" to be used in the development of DOE IT Re-investment applications. Presented this guide to the DOE RII development team.
- Created a custom interface to the Microsoft Security Application Block to extend and encapsulate the existing functionality of the Security Application Block.
- Lead developer for the implementation of the initial 2 modules for the DOE reinvestment strategy.

ENVIRONMENT AND TOOLS
- C#
- .NET
- Windows Forms
- Microsoft Enterprise Library
- SQL Server
- iBatis
- NUnit

Software Developer, *Castle Rock Research, Aug 2003 - Oct 2005*
- *Lead developer for "Integrity"* (https://integrity.castlerockresearch.com), a Castle Rock product to provide Statistical Test Item Analysis and Collusion Detection to post-secondary institutions.
  - Involved in all aspects of the application design and implementation, including the creation of coding standards and best practices.
  - Designed and implemented the database schema, including stored procedures, key constraints and data access code.
  - Designed and implemented middle-tier business logic and integrated this with an existing statistics package library created by Castle Rock.
  - Coded ASP.NET front-end client.
  - Created the "worker" process for the application that allowed analysis of tests to be performed across multiple "worker" machines. Inter-machine communication was handled via MSMQ.
  - Created an interactive glossary for the application.
  - Created an initial version of the internal installation and trouble-shooting guide for Integrity.
  - Researched and implemented 3rd-party solutions for the generation of PDF documents and graphs within the application.
  - Involved with infrastructure planning in addition to the launch and deployment of Integrity.
    - This involved documenting a process for quality assurance and the creation of build scripts to move builds of the product from the development system to the staging and production systems.
- *Lead developer for the Castle Rock Research Corporate Website* (http://www.castlerockresearch.com)
  - Involved in all aspects of the application design and implementation, including the data access code, middle-tier business logic and the ASP.NET front-end.
  - Added significant functionality to the offerings of the previous Castle Rock site by adding secure online shopping functionality, online course registration, and a full catalogue of the products offered by Castle Rock.
  - Implemented a link-in module to tie orders and course registrations received through the website to Castle Rock's existing Order Tracking application.
- *Initial project* involved a ground floor redesign and re-implementation of Castle Rock's internal Inventory and Order Tracking application. The functionality of the application was expanded to include sales performance statistics across sales zones; role based security; advanced reporting capabilities; and remote access through the web.
  - Other duties relating to this project included: testing, data migration from the existing system, and technical support.

ENVIRONMENT AND TOOLS
- C#
- .NET
- ASP.NET
- MSMQ
- HTML
- CSS
- JavaScript
- SQL Server
- T-SQL
- Crystal Reports
- TallPDF.NET
- .netCharting
- NUnit
- NAnt

EXPERIENCE (CONT.)

Programmer Analyst, *Cybernius Medical, May 2001 - Apr 2003*
- Ongoing duties involved the support, maintenance, enhancement and development of the cyberREN (http://www.cyberren.com) nephrology charting system, particularly in moving the system towards an Object-Orientated design.
- Introduced Unit Testing into the Software Design Process using ORUnit, an open-source testing framework for the OpenROAD programming language based on the JUnit testing framework. Created documentation explaining the use of ORUnit and presented this document to peers in the development department.
- Aided in the creation of a coding standards document to be adapted by the development department.
- Implemented a consistent error-handling module for the cyberREN application.
- Designed and implemented an XML interface for importing Radiology Consultation Records.
- Designed and implemented an XML interface for importing patient data (ADT data).
- Designed, developed and implemented a new Hemodialysis Access Charting module.
- Aided in the installation and maintenance of client sites.
- Other duties included testing and general debugging of the system; development and maintenance of test suites.

ENVIRONMENT AND TOOLS
- OpenROAD 3.5
- C
- Java
- Ingress II
- SQL

Programmer Assistant, *University of Alberta, Nov 2000 – Apr 2001*
- Utilized the W3C Libwww C extension library and Java multi-threading capabilities for the purposes of retrieving web linkage information.
- Developed Perl scripts to parse and extract relevant information from retrieved files.

ENVIRONMENT AND TOOLS
- Java
- Perl
- C

REFERENCES AVAILABLE UPON REQUEST