

Andrew Cumming

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Portfolio: <https://andrewec.github.io/>
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GitHub: <https://github.com/AndrewEC>

Skills

- Accessibility Analysis and Remediation
- Spring Boot Development
- Angular/Single Page Application Development
- Black and White Box Testing Methodologies
- Coding Design Patterns
- Unified Modeling Language
- Structured Database Schema Design

Professional Experience

Business Banking Portal Development (API Developer/RBC) (2019/Current)

As part of this role my primary responsibilities were to continuously develop and maintain presentation/domain APIs, integrated and automated test suites, and, occasionally, assist in the development of frontend modern Angular based components to support online payments and transfers, account balance and transaction reporting, and more

- Developed multiple Java/Spring Boot/Maven stateless microservices using a scrum like methodology in 2 week sprint cycles
- Ensured product quality through the implementation of granular automated tests including unit tests, integration tests with WireMock, contract tests with PACT, and mutation tests using PIT, for execution on a mature CI/CD pipeline
- Ensured application resiliency and banking portal scalability by taking advantage of latest Spring conventions including reactive and asynchronous paradigms, PCF auto-scaling configurations, developing semi-transparent proxies for caching server-to-server communications, and creating optimized database ORM queries, relationships, and indexes
- Implemented integrations with external service providers like Verified.Me and SSO to other financial and accounting portals

- Applications built deployed via Jenkins and Urban Code Deploy through an automated continuous integration pipeline and hosted on the Pivotal Cloud Foundry platform
- Worked with QA and QE teams to design and setup test data for verifying complex flows and simulating complex companies setups and legal agreements
- Debugged production level defects and issues using standard application logs and Dynatrace tracking
- Designed and implemented structured database schemas using MariaDB for features like user preferences and approval workflows with the help of Liquibase and Spring JPA
- Expanded communication and presentation skills through dedicated Ezra coaching sessions

Online Banking Service Development (Developer/RBC) (2017-2019)

As part of RBC's Digital Development team we are responsible for creating, managing, and otherwise maintaining many front end and service layer components running on Websphere Portal, Spring MVC, and Angular 2+ platforms that support thousands of clients and tens of millions of dollars in transactions annually.

- Developed multiple backend services using Spring Boot and Spring MVC with Maven to support various online banking features like self-serve loan management, GIC purchase and renewal, and online foreign currency ordering
- Created multi-channel applications that support customer and employee assisted channels utilizing LDAP/SPNEGO for automatic employee authentication
- Developed upon, and maintained, legacy Websphere applications running on a remote Windows VM
- Worked with internal security teams to identify and resolve application security vulnerabilities through an internal pen-testing process
- Applications primarily built and deployed via Jenkins and Urban Code Deploy through an automated continuous integration pipeline and hosted on the Bluemix platform
- Developed, largely, in a Waterfall style methodology with dedicated quality assurance team members

Accessibility Analysis and Training (Technology Accessibility Analyst/Ministry of Community and Social Services)

- Gave a lectures to hundreds of Government of Ontario employees demonstrating how to create accessible Word/PDF documents and how to use JAWS
- Met with clients at external locations and provided personalized training and advice for individuals and teams
- Analyzed government websites and documents against the Web Content Accessibility Guidelines to identify possible issues and accessibility deficiencies primarily using Job Access With Speech (JAWS) software
- Documented issues, prepared reports, and presented findings to clients (either in person, virtually, or over the phone)

Employment History

Royal Bank of Canada – Toronto, Ontario

Developer (Spring Boot/Angular) – 2019 (Current)

Royal Bank of Canada – Toronto, Ontario

Developer (Spring MVC/Sprint Boot/J2EE) – 2017 – 2019

Royal Bank of Canada – Toronto, Ontario

Developer (Co-op) – 2016

Royal Bank of Canada – Toronto, Ontario

Technical Systems Analyst (Co-op) – 2015

Royal Bank of Canada – Toronto, Ontario

IT Accessibility (Co-op) – 2015

Ministry of Community and Social Services – Toronto, Ontario

Technology Accessibility Analyst (Co-op) – 2014

Education

Centennial College – Toronto, Ontario

Software Engineering Technology, 2012 to 2016 – Advanced Diploma