

Iain Buchanan

🌐 Toronto, ON

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Web and application developer with six years of professional experience and skills across a range of frontend and backend disciplines, looking to take on new challenges and responsibilities.

Experience

Senior Developer | In The Pocket

Ghent, Belgium | Nov 2015 – Jul 2017

- Created NodeJS APIs for popular mobile applications incorporating data from external services, utilising Redis for caching and automating push notifications with RabbitMQ and Urban Airship
- Created admin backends using PHP frameworks (Laravel and Craft CMS) for mobile apps and to implement the new agency website
- Developed a complex front-end EmberJS app and backend architecture incorporating offline functionality and data synchronisation, for an international pharmaceutical company
- Developed Continuous Integration strategies for Javascript and PHP projects, integrating unit testing, code review and deployment using Jenkins, SonarQube, Docker, to improve internal processes

Developer | VIB/University of Ghent

Ghent, Belgium | Nov 2014 – Nov 2015

- Wrote and refactored complex Java systems using Swing, Spring and Hibernate to support processing of data from medical protein research experiments, including data I/O in industry standard formats
- Developed and implemented testing strategies for existing codebases using JUnit
- Created web front-ends for documentation generated from currently maintained projects on Github using Jekyll, for an existing project as an alternative to the Swing GUI, and for a multi-user iPython system

eLearning Systems Developer | University of Edinburgh

Edinburgh, UK | Apr 2012 – Nov 2014

- Lead the design and development of a bespoke virtual learning environment (VLE) for surgical science and ophthalmology based on the Kohana PHP framework with a responsive user interface and content authoring and versioning tools
- Scripted the transfer and conversion of legacy wiki resources into maintainable HTML content
- Developed and maintained four VLEs to support qualifications offered by the Royal College of Surgeons, implementing content archiving, student analytics, providing documentation and training
- Designed and developed a catalog system for student assessment data to integrate with legacy systems and provide indexed multi-factor search, storage and retrieval of metadata, statistical data reporting


Web Developer | Cashbackcard

Edinburgh, UK | Nov 2010 – Apr 2012

- Developed three PHP (Codeigniter) applications to support and promote prepaid debit cards and retail promotional offers, as part of a small team.
- Designed and implemented MySQL, Postgres and MongoDB databases for storage of business data
- Integrated social media and payment processing APIs, including credit card payment processing, Facebook interaction, and Google Maps geolocation
- Developed front-end interfaces using HTML/CSS, jQuery, and backbone.js for multiple public facing websites and internal systems

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Education

BSc (Hons) Computing | The Open University

Edinburgh, UK | Oct 07 – Oct 11

- Classification: Honours, First Class
- Focus: Software Engineering / Object-Oriented Development

Technical Skills

- **Web Development:** API development with NodeJS (Express, Koa), Python (Flask), API and CMS development in PHP (Laravel, Kohana, Craft CMS, Codeigniter), front-end development using HTML/CSS, JS (React, Ember, jQuery), database development with MySQL/Postgres/MSSQL /MongoDB, ElasticSearch/Lucene search technology, asset management with Gulp, Webpack, caching with Redis, message queueing with RabbitMQ
- **Application Development:** Desktop application development in Java, Swift, Objective-C, JS (Electron), mobile app development in iOS, Android, React Native, prototyping in Python, peer-to-peer networking development, OSC protocol messaging, version control using Git and Subversion, issue tracking using JIRA, Trac, build management with Maven
- **Mobile Development:** iOS development and deployment, Android, React Native
- **Devops:** Continuous integration with Jenkins, TeamCity, management of local and remote Docker setups with Compose and Kubernetes, VM management with XenServer, Apache, nginx and IIS server management, AWS fundamentals
- **Testing:** Unit testing and test-driven development with Mocha, Chai, PHPUnit, JUnit, automated cross-browser testing with PhantomJS, Selenium, BrowserStack, user studies, coverage and linting with SonarQube, ESLint, Istanbul