

## CV - Roy Ramsay

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Computer Science graduate with 1<sup>st</sup> Class Honours who combines technical skills with soft skills through public speaking and leadership experience.

**Portfolio website: [roy-ramsay.tech](http://roy-ramsay.tech)**

**Computer Science BSc  
Newcastle University**  
2013 - 2017

1<sup>st</sup> class honours in Computer Science with industrial placement.

**Software developer at  
Innovez Ltd**  
June 2018 –  
Present

Writing efficient code for performance critical systems for the energy trading market.

Minimising memory footprint and maximising execution speed through careful design of data structures and thread-safe parallelism.

Independently lead the development of a project involving over-seas developers.

**ServiceNow developer at  
TESM**  
Oct 2017 –  
May 2018

- Developed a web page for viewing the office's meeting room schedule and making room bookings.
- Wrote object-oriented JavaScript on the client and server sides to configure ServiceNow for customer requirements in a scalable way.
- Acted as assistant business analyst, speaking directly to customers to understand their business processes and gather requirements.

**Full-stack web developer  
at WAF**  
(Unpaid, part-time)  
Jun 2015 –  
Dec 2017

- Built a fully functioning single-page responsive website in raw HTML, CSS, JavaScript, PHP and MySQL.
- Prepared statements prevent SQL injection and the authentication system encrypts passwords.
- No browser page changes, AJAX used to refresh only the necessary part of the page.
- Use of perspective camera to create a unique 3D UI.

**Technical Support  
Analyst at IBM**  
June 2015 –  
June 2016

- Provided technical support to Cognos BI software customers, speaking directly to clients daily by phone, remote session and email.
- Wrote published IBM support documentation.
- Part-time web development contribution using CakePHP, HTML, CSS, Javascript and MySQL.

## Skills

### Technical

- Full-stack Web development:
  - Single page web-apps via AJAX without jQuery
  - Responsive CSS without bootstrap
  - PHP
  - Node.js
  - Security: SQL injection, XSS, CSRF, authentication + password encryption
- C#
- Java
- C++
- Kotlin
- Concurrency / Parallelism
- Google Protocol Buffers
- Game development fundamentals – Vectors, Matrices, Physics, Path-planning etc

### Soft

- **Public speaking** – given many speeches to audiences of 100+ people and competed in multiple debating competitions.
- **Interpersonal skills** – an IBM customer requested I be their permanent personal support contact due to excellent service.  
Through quality communication skills I received a perfect review from an IBM customer despite explaining that their requested service was out of the scope of support.
- **Passion for innovation** – Always trying to do something unique and new, such as implementing an unusual 3D animated UI for a website (see portfolio).
- **Self-motivated** - Set up a sweets selling business while at school, quickly doubling my initial capital.
- **Proactive** – at IBM, used spare time to build a ‘Useful Links’ web tool for myself and colleagues to find and share links. Increased the team’s productivity.  
Whenever I’ve been tasked with porting code, I don’t port blindly, I analyse and question each line of code and discover unknown bugs and implement new optimisations.
- **Willing to learn** – When asked to port a system from C# to Kotlin, despite knowing neither language, I quickly learnt both and delivered a successful result in a timely manner.