

# Ryan Proulx

SOFTWARE ENGINEER · COMPUTER SCIENTIST

Sydney, New South Wales, Australia

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## Summary

Recently moved to Sydney to live with my Australian spouse. Experienced Senior Software Engineer and Computer Scientist, with rights to work in Australia, seeking a remote work opportunity. Passionate about building secure, performant, and customer focused solutions with an extremely high level of attention to detail. Dedicated to continuously improving processes and learning new technologies. Focused on returning to Software Engineering and Computer Science after taking a career break to pursue Esports as a player and a coach.

## Work Experience

### Naval Undersea Warfare Center Division Newport

Newport, Rhode Island, USA

COMPUTER SCIENTIST

June 2009 - November 2018

- Chief Engineer and Scrum master of a full-stack web application (Learning Management System, microservice based with REST API) based on Spring Boot and Angular. Front-end used Angular (TypeScript and VMware Clarity for Angular components), Hibernate as an ORM, and Microsoft SQL Server for an RDBMS (also have experience with PostgreSQL and MySQL). Developed in a hybrid environment (Windows and Linux RHEL).
- First iteration of the application was built by myself from the ground up (using JSP/jQuery), as a new hire, based on an identified need within the community. Rapidly prototyped a solution, and provided product demonstrations which resulted in successfully securing funding and additional customers. Worked directly with the Project Manager and the customers to identify requirements.
- Oversaw deployment to several platforms and locations across the United States, provided direct support to users via site visits and remote assistance.
- Wrote end-user documentation for installation and usage of the application.
- Transitioned the application from the old stack (JSP/jQuery) to the new full-stack configuration (Spring Boot/Angular).
- Grew the development team to 10+ members. Introduced the Scrum process to the development team and management, successfully achieving adoption. Managed sprints, daily scrums, and handled all merge requests and code reviews. Wrote code when I had the time.
- Utilized APM and profiling (JVM and SQL) tools to help direct team towards specific application optimizations in order to handle an increasingly larger concurrent user base.
- Oversaw implementation of a DevOps pipeline to automate the build process. Helped develop extensive code coverage via robust test cases, and E2E test cases to verify interoperability and implementation.
- Implemented automated static code analysis tools for code quality, automated Dynamic Application Security Testing tools to test cybersecurity between builds (SecDevOps), and automated unit and end-to-end test cases. Utilized containers in order to standardize testing and deployment of the application.

### University of Massachusetts Dartmouth

Dartmouth, Massachusetts, USA

GRADUATE STUDENT

July 2008 - September 2008

- Member of a team selected through UMass Dartmouth to develop, for the Naval Undersea Warfare Center Newport, an Axis2 Web Service in Java that ran in Apache Tomcat.
- The Web Service was responsible for accepting SOAP messages with JC3IEDM (a NATO standard information exchange data model) based XML instance documents as attachments, and persisting them to a MySQL server.

### University of Massachusetts Dartmouth

Dartmouth, Massachusetts, USA

SENIOR COMPUTING ASSISTANT

July 2005 - June 2009

- Troubleshoot and supported University faculty and staff computers over telephone, e-mail, and in-person. Installed, maintained, and configured a large range of software and hardware across multiple platforms.

## Skills

<b>Programming</b>	Java, TypeScript, JavaScript, Python, SQL, Bash/Shell, HTML, CSS
<b>Technologies</b>	Spring, Maven, Hibernate, Angular, Node.js, Docker, Linux, VMware vSphere, SQL Server
<b>Tools</b>	Git, GitLab, Eclipse, Visual Studio Code, Vim, SonarQube, OWASP Zap

## Education

### University of Massachusetts

Dartmouth, Massachusetts, USA

MASTER'S DEGREE IN COMPUTER SCIENCE

BACHELOR'S DEGREE IN COMPUTER SCIENCE