

Pat Macpherson

"When you have eliminated the impossible, whatever remains, however improbable, must be the truth"
- Sherlock Holmes

Education

1999–2004 **B.Sc. (Computer Science)**, *University of New South Wales*, Kensington, NSW, Australia.

Relevant Coursework

computer science Object oriented programming, databases, networking, human computer interaction, artificial intelligence, ethics and discrete mathematics.

Experience

2015–Present **Various roles, see below**, *Ansarada*, The Rocks, NSW, Australia.

My time at Ansarada has seen a lot of changes. Our development team quadrupled in size, and then contracted again. A new office in Vietnam was established.

Ansarada offers a challenging environment and my role has adapted to suit our needs at a given time.

2016–2017, **Tech Lead.**

2019–Present As a tech lead, I am responsible for contributing across our engineering department, not just within my immediate team. This can be via creating shared libraries, publishing blog posts, improving existing processes or as simple as having regular catchups with other developers. Accomplishments include:

- Integrating with Auth0 for a unified login experience, and service-to-service authentication.
- Mentoring junior developers.
- Co-ordinating and managing phone screen interviews.
- Leave cover for QA Manager (2 months).
- Migrating an existing Asp.NET service to Dotnet Core, via pair programming.

2017–2019 **Team Lead.**

For 2 years I was the team lead for the Reporting team. We had 4 full-time developers, split across Sydney and Ho Chi Minh City.

Accomplishments included:

- Delivering a deadline-critical project on-time. The Bidder Health Check report is generated by a third-party AI specialist, and my team was responsible for surfacing this to our customers. A planned marketing campaign meant that we had a critical deadline to meet.
- Improving performance of a critical report, through data-driven analysis.
- Building up processes and tools for service support and project handovers.

2015–2016 **Developer.**

- Implementing new visual library across our product, as part of a larger team.
- Improving the developer onboarding setup.
- Improving the then-manual deployment process through automation of several steps.

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2009–2015 **Developer / Senior Developer**, *Boomworks*, Camperdown, NSW, Australia.

Responsible for the design and development of CMS backed websites. At the beginning of a project I am involved with deciding on a project architecture and estimating the time and resources needed.

I am responsible for leading the project's development team (2-3 developers) during the site build, and would liaise with the client around quality assurance and user acceptance testing. As we are a small team, I have also been involved in the day to day IT support, the on-call support of business critical client infrastructure and assisting with content management strategies.

Major clients include Youth Hostels Australia, RAMS Home Loans, Dymocks Childrens' Charities and Kelly OCG Consulting. Smaller projects have included clients such as Telstra and the National Rugby League.

Accomplishments included:

- Managing a small team (2-3 coders) during active development phases of major projects.
- Building several greenfield websites and maintenance / extension of several brownfield websites
- Driving process improvements to improve efficiency in the development team
- Analysis of business needs in order to provide targeted solutions that best fit the client's needs

2006 – 2008 **Developer**, *Beyond Software Development*, Sydney, NSW, Australia.

Initially taken on as a trainee programmer, I was involved in the design, implementation and maintenance of several web applications. Our customers were varied in both size and nature.

For several months, I oversaw the development of a large background checking web application and the transition of it's development to another overseas development team.

Accomplishments included:

- Overseeing maintenance and expansion of a large scale .NET web application
- Leading project development both as part of a team and solo
- Working on projects with critical security, privacy and financial considerations

2006 – 2006 **Quality Assurance Analyst**, *Simbient*, North Sydney, NSW, Australia.

I was employed to establish quality assurance processes, as part of a larger process overhaul. The growing size of the business had made it harder to ensure consistent quality, and necessitated changes to unscalable practices. I was involved in setting up an independent testing and quality assurance process, including the writing and executing of test plans, giving feedback to developers and reporting to management.

Accomplishments included:

- Documentation and design of test strategies
- Exploratory testing of websites and GUI applications

2004 – 2006 **Software Test Analyst**, *Redmap*, North Sydney, NSW, Australia.

Hired as the first full-time tester at Redmap, my responsibilities included application testing, high level customer support, documenting test criteria and refining requirements.

Accomplishments included:

- Documenting standard test plans, including critical path testing, 'smoke' tests, and regressive testing; for use by others and for verification of testing coverage.
- Liaising with clients regarding acceptance testing and requirement fulfillment.

Technical Experience

Proficient With

- techniques Microservices, event-driven architecture, pair programming, feature toggles, quality assistance, agile, domain driven design
- languages C#, SQL, Terraform
- technologies Dotnet Core, AWS (EC2, ECS, Lambda, DynamoDb, Kinesis), Auth0 / JWT / OpenID, Asp.Net, Classic ASP
- ides JetBrains Rider, Visual Studio, VS Code
- unit testing AutoFixture, xUnit, Approval Tests, PactFlow, NCover

Have Experience With

- techniques Kanban, scrum
- languages React, Javascript, Powershell, Bash, Perl, Java
- technologies AWS (SNS, SQS), Azure

Intrigued by

- techniques Mob programming, evolutionary architecture, no-estimates
- languages Golang, F, Darklang
- technologies Event sourcing, static website generators, SonicPi

Side projects

- Generating my family's Kris-Kringle
- Designing custom card deck using NanDeck
- Running family footy tipping competition

Hobbies

Playing bass guitar, coaching children's soccer, following the Sydney Swans