

## Contact

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[hartnall.com.au/](http://hartnall.com.au/) (Portfolio)  
[www.credly.com/badges/94f3fd5b-49e3-487f-ae54-6925d966a36d/public\\_url](http://www.credly.com/badges/94f3fd5b-49e3-487f-ae54-6925d966a36d/public_url) (Other)

## Top Skills

JavaScript, CSS, HTML, restful API  
Software Design  
JavaScript

## Certifications

Sun Certified Programmer for the Java 2 Platform, Standard Edition 5.0

Microsoft Certified: Azure Fundamentals

## Publications

Studies on the measurement of phospholipase A2 (PLA2) and PLA2 inhibitor activities in ram semen.

# Emma Hall

Software Developer | Programmer | NV1 | AZ-900 certified | J2EE certified | Web Services | M2O4 | Java  
Canberra, Australian Capital Territory, Australia

## Summary

As a creative and innovative software developer, I have a strong commitment to test-driven and model-driven development. I integrate testing seamlessly into the development process, writing test code concurrently with requirements gathering and coding. I believe that a well-crafted diagram can convey complex ideas effectively, so I often use visual representations to communicate concepts.

Guided by the principles of the Agile Manifesto, I ensure that all code has a clearly defined interface. Each interface is thoroughly documented with a comment block that outlines inputs, outputs, preconditions, and postconditions. I also create unit tests to validate these interfaces, ensuring robust and reliable software.

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## Experience

### Hartnall Digital Solutions

Founder

May 2023 - Present (1 year 4 months)

North Canberra, Australian Capital Territory, Australia

### Dialog Information Technology

16 years 3 months

Software Programmer

February 2007 - April 2023 (16 years 3 months)

Canberra, Australian Capital Territory, Australia

M204 developer

June 2015 - December 2022 (7 years 7 months)

Canberra

An integral part of the Transformation Services team at Services Australia. The Transformation Services team was tasked with the responsibility of exposing the existing mainframe functionality to the new process direct system.

- \* Created component diagrams to show how the modules of the compliance framework fit together.
- \* Created a list of all the screens available.
- \* Created web service which was called by the new single-touch payroll functionality.
- \* Created a database group to aid the locking of workflows.
- \* Created a web service that allowed workflows to be saved and exited.
- \* Created test code.
- \* Decommissioned some old mainframe screens.
- \* Wrote code that redirected users to a splash screen if the user tried to access the old functionality.

#### Data Analyst

February 2015 - June 2015 (5 months)

Canberra, Australian Capital Territory, Australia

#### Data Analyst

March 2014 - June 2014 (4 months)

Cleaned up the data in the fuels team's iBase database at the Department of Environment. The data had become corrupted during a previous migration job followed by data entry errors as the users struggled to use their new database.

- \* Created reports which enabled me to find and merge duplicates.
- \* Created reports allowing me to notice missing links and orphaned records.
- \* Exported modified and imported some data.
- \* Produced daily reports showing the current state of the data.
- \* Cleaned up data ahead of schedule.
- \* Client checked the data and gave me a good review.

#### Test code writer

May 2013 - June 2013 (2 months)

- \* Created a regression test suite for a Dialog-developed J2EE web application.

#### M204 Developer

November 2011 - November 2012 (1 year 1 month)

Canberra, Australian Capital Territory, Australia

#### MsAccess / Oracle developer

July 2011 - October 2011 (4 months)

Canberra, Australian Capital Territory, Australia

#### MsAccess / Oracle Developer

March 2011 - July 2011 (5 months)

Canberra, Australian Capital Territory, Australia

- \* Fixed bugs and made enhancements to existing database.
- \* Added new fields.

#### VBA msExcel developer

May 2011 - June 2011 (2 months)

Canberra, Australian Capital Territory, Australia

Department of Regional Australia

- \* Created a dashboard that allows users to email out a spreadsheet.
- \* Created code to import data from returned spreadsheets.
- \* Created code to generate reports from the data.

#### VBA developer

January 2011 - March 2011 (3 months)

Canberra, Australian Capital Territory, Australia

- \* Created a form with password protection and data validation.
- \* Created the code to email the form to multiple councils.
- \* Created the code to assemble all the returned information into one document.

#### M204 Developer

February 2009 - June 2010 (1 year 5 months)

Canberra, Australian Capital Territory, Australia

- \* Created a batch job to extract the required data.
- \* Wrote the code to generate SAS reports from the data.
- \* Wrote Technical Specification.
- \* Modified and Created Janus Screens.

#### J2EE web application developer

February 2007 - June 2008 (1 year 5 months)

Canberra, Australian Capital Territory, Australia

Created and populated JSF screens for the new J2EE National Pollutant Inventory system.

- \* Created the user admin workflow and some other screens.
- \* Created an initial launch screen to demonstrate the application to users.
- \* Wrote Java code to populate the screen.
- \* Wrote Java code to save and validate the entered data.
- \* Wrote JavaScript code to perform validation and some other dynamic screen behavior such as opening popup windows.

#### Genesis Research & Development Corp, Ltd

Scientist

October 1997 - July 2000 (2 years 10 months)

DNA sequencing for various internal and external clients.

## PSM HOLDINGS LIMITED

Quality Assurance Test Analyst

February 1995 - November 1997 (2 years 10 months)

Auckland, New Zealand

Tested the raw materials and finished products for a pharmaceutical manufacturing company.

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## Education

Deakin University

BComp (CS/SD) , Computer Science and Software Development

The University of Waikato

Bachelor of Science - BSc, Molecular Biology, Genetics, Micro biology