

# Tony Morris

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Software Engineer, specialising in applying Functional Programming to achieve high-assurance, rapid software development

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[github projects](#) • [gitlab projects](#) • [presentations](#)

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## Professional Experience

### **2015-present**      **Functional Programming Team Leader**

Queensland FP Lab, Data61, CSIRO

Managing a team of 10 software developers, with various software projects that utilise functional programming to achieve the objectives. This role as team leader of the **Queensland Functional Programming Lab** involves the delivery of impact-based software solutions to industry and government. Examples include:

- the legislated Consumer Data Rights for the Australian government (ACCC) in an open banking solution
- delivery of software development education programs to industry and government partners
- development of open-source software solutions with a view to help industry achieve specific outcomes

Most software development at the Queensland FP Lab is done using the Haskell programming language, but others are also used, such as Purescript, Elm and Python.

### **2006-present**      **Functional Programming workshop presenter**

Overcoming the challenges with the transfer of knowledge in Functional Programming to other software engineers. Author and presenter of **the Data61 FP course**, founder of **Brisbane Functional Programming Group** and regular conference presenter (see *presentations*).

I am passionate about accurate and successful transfer of knowledge in the area of Functional Programming. Over the passed 15 years of implementing Functional Programming solutions, I have also developed and delivered material to help others take advantage of the benefits and practical applications that are available to them.

### **2012-2015**      **Senior Software Engineer**

National ICT Australia

Working on various software projects under the Australian federal government technology research centre NICTA. Some of these software projects become their own companies, with independent revenue. Some others continue on as open source software libraries that are used throughout various industry and Australian government departments.

NICTA was discontinued by the Australian government and merged with CSIRO in 2015 under the name Data61.

**2010-2012          Senior Software Engineer**

Ephox Pty Ltd

Working with Haskell (primarily), Scala, Java and Javascript to solve business problems for a product company specialising in rich editors. These projects include the TinyMCE text editor, which appears in most web forms for rich text editing, and WebRadar for content analytics and specifically, to integrate with related IBM software solutions.

Ephox has since changed names and is now called Tiny.

**2009-2010          Senior Software Engineer**

Eyecon Pty Ltd

Implementing gaming solutions using the Java/J2EE platform. The gaming solutions include online gaming platforms and physical gaming machines. Much of the work here involved not just implementation, but testing and assuring compliance with regulatory requirements.

**2008-2009          Senior Software Engineer**

Paycorp Payment Solutions Pty Ltd

Implementing payment business solutions using the Scala Programming Language and related programming techniques. Paycorp implements payment solutions for Australian retail merchants for seamless payment acceptance. This role required proficiency in ensuring a timely and correct software delivery and with fast adaptation to changing requirements.

Paycorp has since been acquired by MYOB.

**2006-2008          Senior Software Engineer**

Workingmouse Pty Ltd

A software development consultancy, primarily using the Java programming language to implement solutions. In this role, I did not directly liaise with clients, but provided technical software development support to the different teams deployed to different client sites.

**2002-2006          Software Engineer**

IBM Corporation

Working under the Tivoli security brand implementing the IBM Tivoli Risk Manager adapter for IBM Tivoli Access Manager targeting seven operating system platforms.

Implementing the IBM WebSphere Application Server (version 6) development team to implement the JSR-115 for IBM Tivoli Access Manager. In 2005 to early 2006 working on the java.security API and the IBM Java Cryptography Extension (JCE) implementation of the IBM Java Development Kit (JDK) version 1.5.

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## Education

**2019**                  RA Flight Instructor Rating (3-axis), Flightscope Aviation

- 2019** Manual Propellor Pitch Control (MPPC) endorsement, Flightscope Aviation
- 2018** Recreational Pilot Certificate (3-axis), Flightscope Aviation
- 2017** Private Pilot Licence (aeroplane category), Pathfinder Aviation
- 2016** Recreational Pilot Licence (aeroplane category), Flight One
- 2011** World Squash Federation accredited referee
- 2005** Sun Certified Programmer for the Java 2 Platform 5.0
- 2003** Sun Certified Developer for the Java Platform 1.4
- 2002** Sun Certified Programmer for the Java 2 Platform 1.4
- 2001** Griffith Award for Academic Excellence for studies in the Bachelor of Information Technology, Griffith University
- 2001** Bachelor of Information Technology, Griffith University
- 1996** Certificate 3 in Information Technology
- 1995** Certificate 4 in Psychology

## References

*available upon request*

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