Adam Fakes

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Summary

I am a Software Craftsman, I build systems, code and platforms.

I have over 25 years experience as a Software Developer, DevOps, Environmental Scientist, GeoSpatial Analyst and more recently as a API + REST Specialist, for government bodies, technology companies, SME's, university, scientific & gaming organisations.
He is well qualified with a B.Sc comp-sci, and industry achievements. He has a unique ability to recognise systems, data structures and dependencies to design, build, integrate & automate business processes within the Information Technology space.

Experience

Software Engineer
Regrow Ag
Dec 2022 - Present (1 year 2 months)
Creating solutions to support farming, and combat Climate Change

Head of SaaS
RUBIX.
Jul 2021 - Dec 2022 (1 year 6 months)

Cloud Engineer
RUBIX.
Apr 2019 - Dec 2022 (3 years 9 months)

Software Engineer
MYOB
Apr 2018 - Mar 2019 (1 year)

DevOps Engineer
Tabcorp
Apr 2014 - Apr 2018 (4 years 1 month)
- Developed AWS cloud-formation templates to construct; api-gateway & ServerLess lambda ETL functions providing risk & fraud detection data streams to SaaS platformed SalesForce.
- Designed & developed a credit card Payment gateway for Sunbets, providing secure and traceable transactions, integrating with anti-money laundering systems. After 6 months of operation the gateway had transferred over £60,000,000 with an error of under £10,000.
- Provided DevOps insights & infrastructure development to interstate, UK, and South American based teams.

- Developed a number of new features & maintenance fixes, in PHP, for the NT based gaming platform, Luxbet. Facilitating customer retention, system stability, and new products.
- Provided geo-spatial data analysis for retail teams, supporting payments to vendors, via a novel approach to non-traditional venues.

Senior Software Engineer

SMSGlobal

May 2014 - Apr 2015 (1 year)
- Developed PHP integrations between the SMS delivery platform and 3rd party RESTful APIs, including Xero accounting, and zapier.com platform.
- Redeveloped a single server "LAMP" application into a multi-tier MVC application, hosted across AWS, implementing SSL hand-off via virtual load balancers to multiple EC2 instances, with attached EBS volumes & RDS (MySQL) databases.
- Technical Lead for the integration of the Akamai content network into SMSGlobal's front-end.

State IT Support Officer

The Australian Greens, Victoria

Jun 2013 - May 2014 (1 year)
- Designed and developed PHP code to connect NationBuilder, SaaS product, to the Greens Internal Drupal system.
- Unix server administration, including local & remote email server management, SPAM & anti-virus detection.
- Transitioned the Victorian office to a hosted email and shared files service.

Contract - Software Developer

Department of Primary Industries Victoria (DPI)

Apr 2013 - May 2013 (2 months)
- Redesigned and coded Oracle stored-procedures & PHP, facilitating the transformation of Excel spreadsheets into Oracle tables.
- Modified Window's specific code, with ODBC connections for Microsoft SQL database server, to execute on Linux with Oracle backend.
- Provided significant improvements to the Exploration Licensing user interface, with CSS, HTML & jQuery, including front-end error handling & validation.
- Integrated a new geo-spatial user interface to the Exploration Licensing system, providing a "mapping" view of licensee locations.

Spatial Analyst

James Cook University

Nov 2012 - Mar 2013 (5 months)
Researched, acquired, analysed, & processed geo-spatial data sets for the Human-Footprint, and Human Influence indices projects.

Software Engineer

James Cook University (eResearch)

Nov 2011 - Nov 2012 (1 year 1 month)

- Applied the principles of AGILE & SDLC to design & develop a RESTful application for the consumption & computation of biological & environmental data producing interactive species ranges maps against various Climate Change scenarios.
- Engineered various pieces of PHP, Bash, C++ code to interface with the High performance compete clusters.

Senior Software Engineer + Scientific Researcher
James Cook University

Aug 2009 - Nov 2011 (2 years 4 months)
- Developed a single database, standardising Australian State groundwater readings while integrating additional environmental data from 3rd party scientific and non-scientific global data sources, including NASA, ESA (European Space Agency) and GRACE gravity anomaly data. This project required the development of Linux, PHP and MySQL code to perform data cleansing & repair; with linear, geo-spatial and time-series statistical analysis.
- Analysis of geographic and satellite remote sensing data to produce geographic datasets, cartographic imagery, and figures for journal article publication.
- Principle investigator with a Queensland Cyber Infrastructure Foundation (QCIF) project to build a "Smart Water Sensor Network", implementing the Sensor Mark-up Language on apache and hardware sensor. Deploying a beta test site in the Queensland outback.

Software Engineer
CSIRO

Oct 2006 - Jul 2009 (2 years 10 months)
- Designed and developed geospatial & environmental modelling tools, for inclusion in a Scientific Model Integration environment,
"The Landscapes Toolkit".
- Developed the "The Landscapes Toolkit" Windows desktop application, using C#, .Net. Supporting the ability to "plug-in" models, via an implementation of Lazy Loading Load software pattern.
- Presented a public lecture on XML, titled "eXciting Markup Language".

Senior Software Developer
WSN Environmental Solutions/Waste Service NSW

Mar 2004 - Jan 2006 (1 year 11 months)
- Creation and redesign of Crystal Reports, including integration with .Net, Lotus Notes & Microsoft Reporting Services.
- Administration of user space, Lotus Notes / Domino cluster email services, including spam and virus filtering, on Windows 2003 and Citrix servers management.
- Desktop support for 300+ users across 14 sites, including fault analysis, recording, and repair.

Senior Software Developer
Salvation Army

May 2003 - Mar 2004 (11 months)
- Redesigned, and redeveloped an existing multi-site Lotus Notes client application into a centralised web-browser application.
- Designed a warehousing system to manage the specific physical item storage needs of the Army.

Senior Software Developer

IBM Global Services

Aug 2000 - Jan 2003 (2 years 6 months)

- Developed a Lotus Notes, version control configuration management & deployment tool.
- Collaborated with third party contractors to develop a Lotus Notes password encryption transfer agent, providing a smooth user transition to Oracle.
- Designed & developed a Lotus Notes, Investment Management application to replace a large number complex financial spreadsheets.
- As a member of the continuity team, collaborated with MLC & IBM to create & execute disaster recovery plans & procedures for; mlc.com.au.

Senior Software Developer

David Jones

Apr 2000 - Aug 2000 (5 months)

- Designed, prototype & developed a Lotus Notes mail archiving system, using near on-line and off line storage mediums.
- Developed UNIX to Lotus Notes mail routing agents.

IBM **Various Positions**

IBM

May 1996 - Apr 2000 (4 years)

1999 April | Sydney | Technical Analyst / Software Developer
1998 Dec | Sydney | Payroll Support Team Leader
1997 April | Ballarat | Internet Support Team Leader
1995 July | Sydney | Internet Help desk - Consultant

Education

James Cook University

B Sc., Computer Science

2007 - 2012

Bachelor of Science (Computer Science). Combined with environmental disciplines, how science and computing adds to the body of knowledge. How can modelling provide insights to the environment.

Newcastle University

Diploma of Computing, Software Development

1990 - 1994

Programming, Software Engineering, Database design

Licenses & Certifications

Introduction to modelling with TIME - CSIRO eWater CRC

Elasticsearch Essential Training - LinkedIn

in **Learning Data Science: Understanding the Basics** - LinkedIn

in **Learning Cloud Data Storage** - LinkedIn

in **Being an Effective Team Member** - LinkedIn

in **Amazon Web Services: Data Analytics** - LinkedIn

in **Amazon Web Services: Monitoring and Metrics** - LinkedIn

aws **AWS Certified Cloud Practitioner** - Amazon Web Services (AWS)

Skills

Problem Solving • Workload Prioritization • Resource Allocation • Critical Thinking • Communication • Python (Programming Language) • JavaScript • Software Engineering • Geographic Information Science • Computer Science

Honors & Awards

Duke of Edinburgh Award - Bronze - Duke of Edinburgh Award Scheme
Dec 1988

Duke of Edinburgh Award - Silver - Duke of Edinburgh Award Scheme
Dec 1989