

Contact

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(Personal)

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Top Skills

Web Development

SQL Database Administration

Mobile Application Development

Certifications

IBM What is Data Science

Alexander Burmester

Software Developer @ mesterian | Doctor of Philosophy
Burwood East, Victoria, Australia

Summary

With over 10 years of experience as a Software Developer, I currently manage and develop software projects as part of my own business, called mesterian. My work focuses on creating robust, cross-platform applications for behavioural and cognitive science.

Previously, I developed a web- and app-based tool for cognitive assessment during my tenure as a Technical Officer at Deakin University and Australian Catholic University. My technical expertise includes web development, SQL database administration, and technical support, which continue to guide my work today.

I have also worked as a Research Associate and PhD Student in the field of visual cognition, where my research focussed on how humans perceive and retain visual information.

Experience

mesterian

Software Developer

October 2024 - Present (1 year 2 months)

Melbourne, Victoria, Australia

Managing and developing software projects.

Deakin University

Technical Officer

December 2019 - September 2024 (4 years 10 months)

Developing web- and app-based tools for cognitive assessment of healthy and clinical groups. Developing and optimizing data analysis pipelines for the analysis of behavioural and neuroimaging data.

Australian Catholic University

Technical Officer

November 2018 - December 2019 (1 year 2 months)

Developing software for projects in the Microstructural Imaging and Rehabilitative Plasticity research group at the Mary Mackillop Health Research Institute at ACU. Also developing data analysis pipelines for the analysis of behavioural and neuroimaging data.

New York University Abu Dhabi

Research Associate

May 2015 - December 2017 (2 years 8 months)

Conducted research into the mechanisms underlying visual working memory in humans. Involved designing, programming and running behavioural experiments for use in the lab and online contexts. Programming was done in MATLAB (using Psychtoolbox and Palmedes), Javascript (using WebGL) and HTML 5. Also involved data analysis using MATLAB and R and preparation of research manuscripts for publication.

Anglo American

C# Developer

September 2014 - December 2014 (4 months)

Brisbane, Queensland, Australia

Worked on a web-based application that was designed to help and facilitate mining operations on Anglo American work sites in Australia and overseas.

QPASTT

Information System Officer

January 2013 - March 2014 (1 year 3 months)

Managing and maintaining a client database and website for a non-government non-for-profit counselling and refugee services organisation. Optimization of existing .NET 2.0 software to .NET 4.5 platform. Continuing development of database-driven winforms application. Website development utilising the wordpress platform.

uniDap Solutions Pty Ltd.

Data Administrator and Administration Officer

January 2012 - May 2012 (5 months)

Brisbane, Queensland, Australia

Administration, data entry, training and handling phone calls related to a web-based solution from the company deployed to many customers.

QIMR Berghofer

SQL Developer

May 2011 - October 2011 (6 months)

Developing and providing project management and technical support for Windows portable tablet application and backend windows webserver for monitoring mosquito populations throughout Queensland, utilising Google maps. Involved developing an offline maps solution before any were available so the research team could function in remote areas with no mobile data coverage.

IBM

Applecare Advisor

May 2010 - October 2010 (6 months)

Brisbane, Queensland, Australia

Answering technical support phone calls, logging information and solving customers' technical support queries over the phone.

Simpro Software

Wordpress Developer

January 2010 - March 2010 (3 months)

Brisbane, Queensland, Australia

Developing a web-based wiki that acted as a manual for the SimPro software.

IntelliDesign

Database Developer

October 2007 - October 2009 (2 years 1 month)

Running and administration of a Linux-based custom content management system (CMS) for an electrical engineering firm. Included development of the CMS using a LAMP stack/framework.

The University of Queensland

Student and Tutor

January 2004 - September 2009 (5 years 9 months)

Brisbane, Queensland, Australia

Developing a C/C++ application using OpenGL to present experimental stimuli for cognitive psychology experiments. Statistical analyses using MATLAB scripts. Writing and research for a PhD thesis. Presented work at conferences in Australia, USA and Russia. Published four papers in peer-reviewed journals. Tutored in Statistics and Cognitive Neuroscience.

Freelance

Private Tutor for Secondary Students and University Undergraduates

March 2001 - December 2005 (4 years 10 months)

Brisbane, Queensland, Australia

Tutoring secondary and university undergraduate students privately at home and university in English, Mathematics, Statistics, Psychology and General Writing Skills.

Education

The University of Queensland

Doctor of Philosophy, Experimental Psychology · (February 2004 - September 2009)

The University of Queensland

Bachelor of Science (Honours), Psychology, Neurobiology · (February 1999 - November 2002)