

Brent Thew

About

Sydney, NSW, Australia
brent@brentthew.com

Languages

English *native*
Auslan *basic*

Interests

Database Systems
Programming
Data Migration
Artificial Intelligence
Sign Language

Education

- 2011 — 2014 **Bachelor of Science (Advanced)** The University of Sydney
Majors in Computer Science and Information Systems
- 2005 — 2010 **NSW Higher School Certificate** Muirfield High School
Ranked 2nd in NSW for Software Design and Development

Work Experience

- 2013 — 2014 **Sydney Student Program** Data Analyst, Academic Model
- Configuration and analysis of the Academic Model of the University of Sydney within the student administration product SITS:Vision.
- Creation of Python scripts to aid in the maintenance of academic model and student data.
- Provision of training and technical guidance for members of project staff and future users of the system within the business.
- Analysis and creation of ad-hoc reports to support data validation and testing activities.
- Cleansing and reconciliation of migrated data.
- 2012 — 2013 **Sydney Student Program** Data Analyst, Data Migration
- Migration of records for a student administration system implementation project working with FlexSIS (Sybase ASE 15) and SITS:Vision (Oracle 11g) systems.
- Creation of data migration scripts/ETLs using Pentaho Data Integration (Kettle) and PL/SQL. Scripting the manipulation of data using Python.
- Development of data mapping specifications for student and academic model records.
- 2011 — 2012 **Sydney Student Program** Data Analyst, Unit of Study Selection
- Logical coding of academic course information within SITS:Vision, and configuration of the e:Vision Module Registration student selection interface.
- Problem solving and analysis of data using SQL and Python.
- Working with stakeholders within the business to ensure the accurate capture of varying degree structures.
- 2011 **TAFE NSW - The Hills College** Enrolment Officer

Academic Experience

- 2013 **Database Systems Research Project** INFO3911 Special Studies Program
As part of the Special Studies Program in Computer Science I completed a personal research project supervised by Dr Uwe Röhm.
My study was titled *A Scalability Study of PostgreSQL's Serializable Snapshot Isolation Algorithm on Multicore Servers*.
In this study I used the DBT-2++ benchmark to observe that the throughput of the SSI algorithm decreases substantially under high concurrent load when running on multiple CPU cores. Through profiling analysis and experimentation of the PostgreSQL codebase I proposed that the cause of the issue was high contention for exclusive access to an internal data structure.
I received a high distinction grade for this study.
- 2013 **Reporting Portal Development Project** INFO3600 Major Development Project
For the major development project I completed a group project with 5 other people.
Working for a Sydney based architectural firm, we developed a reporting portal using Django that consolidated operational and personnel data into interactive visualisations.
I was personally responsible for the development of a number of the visualisations using the D3.js JavaScript library, and the setup and configuration of MS SQL Server and Apache HTTP Server instances. I was also chosen to act as project manager, and was responsible for work scheduling.
I received a high distinction grade for this project.

Awards and Recognition

- 2014 **High Honour Roll** School of Information Technologies, The University of Sydney
High Distinction average in IT units of study in 2013.
Highest mark in the unit of study COMP3109 Programming Languages and Paradigms.
- 2014 **Invitation to the Faculty of Science Talented Students Program** Faculty of Science
High Distinction average in 2013.
- 2013 **High Honour Roll** School of Information Technologies, The University of Sydney
High Distinction average in IT units of study in 2012.
Invited to the Special Studies Program in Computer Science.
- 2010 **UNSW Academic Achievement Award** University of New South Wales
Awarded scholarship by Muirfield High School for academic achievement.

Other Courses

- 2014 — **Certificate II in Auslan** Northern Sydney Institute
Learning to communicate using Australian Sign Language, and about the history and culture of the Deaf community of Australia.
- 2013 **Sign Language 1 & 2** The Deaf Society of New South Wales