

LEWIS SMITH

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EDUCATION

University of Queensland

Bachelor Engineering (Hons) Software Engineering (Part-Time)

Brisbane, Qld

Grad: Nov, 2017

EXPERIENCE

SAP Innovation Center

Software Engineer - Intern

Brisbane, Qld

March 2016 — Present

- Generating realistic multi-million row data sets for usage in product demonstrations - banking transaction analytics (SQL, SAP HANA)
- Multi-billion row table migration between multiple on premise and cloud database systems (SAP SDI and Bash)
- Creating back-end unit tests for data analytics application (JavaScript)
- Clustering of time-series data to group similar customers together based on their transactional behaviour using cosine similarity (SQL)
- Feature creation and extraction on multi-million row transactional data (SQL)
- Training and hyper-parameter tuning of machine learning models (SAP Predictive Analytics Library)
- Optimising SQL query plans and table partitioning to improve back-end performance (SQL)
- Working closely with project leads, UX designers, UI developers, data scientists, and business development experts

Independent Math & Physics Tutor

Tutor

Brisbane, Qld

January 2012 — June 2014

- Tutoring High School and First Year University Mathematics and Physics
- Organising and managing students study plans

Forge Group

Engineer - Intern

Perth, WA

Dec 2012 — Feb 2013

- Document control management
- System estimations using 3D CAD models

SKILLS

Programming Languages: C, Java, Python, HTML/CSS, SQL, JavaScript, Matlab, Bash
Technologies: Vim, JIRA, Git, Subversion, Docker, Kubernetes

PROJECTS

Undergraduate Thesis Project *Python, SQL, Tensorflow, Scikit-learn*

Predicting how many days until a customer will leave a bank based on transactional data using feature vectorisation with seq2seq LSTM Recurrent Neural Networks

Fish Photo Classifier *Tensorflow, Python, OpenCV, Pickle*

Training a model using transfer learning on Inception v3 to classify Queensland's top 5 most caught fish, in a sports fishing context.

R-tree *Python*

<https://github.com/lleewwiiss/R-tree>

Built a R-tree indexing system with optimised range and nearest neighbour queries

AWARDS

1st Place at Startup Weekend for Health

Brisbane, Qld

Most Innovative Business Idea : Wearable for babies to track and analyse health metrics to improve parents quality of life
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March 2016

Outstanding Academic and Sporting Achievement

Brisbane, Qld

Awarded upon graduating Ormiston College with an OP 3 (~97 ATAR)
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Nov 2011