
EDUCATION

Carnegie Mellon University

Master of Science & Information Technology (3.7 / 4.3)

Adelaide, SA
August 2016

Adelaide University

Bachelor of Music (Jazz Drums)

Adelaide, SA
November 2014

Adelaide University

Diploma of Music (Sound Engineering)

Adelaide, SA
November 2011

ACADEMIC PROJECTS

Twitter Data Analytics on the Cloud, CMU (Spring 2015)

- Used Hadoop & Spark to format and process 1 year of Twitter Data
- Built high performance, scalable web service for serving Twitter analytics
- Wrote ETL jobs for and optimised HBase & MySQL Database Clusters

Teradata University Network 2016 Data Challenge, CMU (Spring 2016)

- Used CRISP-DM methodology in Data Mining and Analysis for Hire Heroes USA
- Applied Machine Learning algorithms to web traffic and social media data
- Used tools such as Weka & Tableau to perform such analyses and visualisations

MyWell: Crowdsourced Well Tracking in Rajasthan, University of Western Sydney (Current)

- Built data visualisation tool and lightweight analytics for tracking water table levels to aid farmers in Rural India
- SMS data processing and extraction

BadMap: Crime Reporting Social Media Platform, CMU (Fall 2015)

- Built social media platform for crime reporting using Java's Spring Boot
- Analysed and displayed crime data geospatially
- Mined Twitter data & performed natural language processing

EXPERIENCE

Enabled Solutions

Full Stack Developer/ Dev Ops

- Developed web applications with Node,
- Worked as a full stack web developer in agile team
- Dev Ops with Docker, MySQL, Bash, CircleCI

Adelaide, SA
Dec 2015 - Present

Hitachi, Yokohama Research Lab

IT Research Intern

- Researched video management IT system for railway
- Wrote research paper on real time rail video streaming and processing
- Designed real-time video streaming processing system for railway

Yokohama, Japan
May - Aug 2016

SKILLS

Languages/Frameworks: Java, Python, Javascript, bash, Obj-C, Node, Loopback, ReactJS, GraphQL

API's/Tools: AWS, Azure, Docker, Hadoop, Spark, Ubuntu, Debian

Databases: MySQL, HBase, MongoDB, Oracle SQL, MariaDB

LEADERSHIP AND AWARDS

- Carnegie Mellon University, "Merit Scholarship", 2015
- Adelaide University, "John Osborn Scholarship", 2013