Joel Smith

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Summary

- ❖ Final year Computer Science/Electrical Engineering student at UNSW in Sydney
- ❖ Experience with various general purpose languages (Python, Java, C etc.), deep learning, big data, frontend and backend web development, Swift iOS
- ❖ Learnt teamwork and adhered to best software engineering practices in large development team at Westpac and iOS start up Coffee Better
- ❖ Honed communication and leadership skills as a tutor at university and as private HSC tutor

Work Experience

Computer Network Tutor at UNSW   Jan 2019 – Present
- ❖ Tutored UNSW Computer Networks course covering computer network theory (all 5 layers, TCP/UDP, CDNs, P2P etc.) and socket programming

                                                                                     Dec 2018 – Feb 2019
iOS Developer at Coffee Better
- ❖ Contributed to Coffee Better's iOS app, developed in Swift using Google Firebase for data collecting/storage

Data Engineer at Westpac   Jul 2018 – Dec 2018
- ❖ Completed UNSW Co-op Internship in the Data Driven Experiences Platform (DDEP)
- ❖ Worked in a large development team working on the Python framework for ingesting data
- ❖ Added an inbound JSON feature to ingest large JSON datasets into the Hadoop cluster with pre-processing, schema validation and Hive table
- ❖ Wrote unit tests, increasing code coverage from approximately 60% to 70% (100+ tests)

Enterprise Architect & IT Ops Engineer at QBE Insurance   Jul 2017 – Feb 2018
- ❖ Completed UNSW Co-op Internship working in several teams, mainly architecture and IT operations
- ❖ Created high-level architectural solutions to business problems, such as email deliverability service
- ❖ Supported transition from siloed IT asset databases towards more robust CMDB using VBA automation

Private Academic and Music Tutor   Jan 2015 – Present
- ❖ Operated as a self-employed private high school tutor in various academic subjects and musical instruments (HSC Mathematics, Science, Brass, Piano, Guitar)

Relevant Projects

- ❖ Groovin' The View – Music visualizer utilising DSP principles developed in JavaScript using P5
- ❖ Todoish – Organisation tool for managing projects and accomplishing tasks, built using ReactJS and Firebase
- ❖ Invading Space – Space invaders artificial intelligence clone constructed in JavaScript using P5
- ❖ Portfolio Website – Website to showcase projects and resume in HTML/CSS and JS

Education

B. Electrical Engineering (Honours)/B. Computer Science,   2015 – 2020
University of New South Wales

- ❖ WAM 74.8/100
- ❖ Two Co-op Scholar Internships
- ❖ Honours Thesis 'Qualitative Assessment Metrics For Transfer Learning' (83 Distinction)

Higher School Certificate, Fort Street High School (97.45 ATAR)   2009 - 2014

Technical Skills

- ❖ Python, C, Java, JavaScript, Matlab, Perl, Haskell, HTML/CSS, Swift, Git, ReactJS, XCode, Keras, OpenGL, PyTorch, TensorFlow, postgreSQL
- ❖ Completed courses on data structures, object-oriented programming, databases, algorithms, artificial intelligence, operating systems (OS161), functional programming, networks, graphics, neural networks
- ❖ Studied electronics, digital signal processing, control systems, electromagnetics, RF electronics, real-time systems and electrical engineering design

Awards and Qualifications

- ❖ UNSW Dean's Honours List, 2015 – 2017
- ❖ UNSW Computing Leadership Award, 2015
- ❖ Fort Street Principal's Prize – Leadership
- ❖ Nominated for 2014 HSC Encore for Musical Composition

Volunteer Experience and Extra-curricular Activities

- ❖ Project Officer/IT Officer for Fortunate Food Co. in UNSW Enactus, 2018
- ❖ UNSW CREATE club member, 2015 – present
- ❖ World's Greatest Shave Participant (raised 1.6k), March 2018
- ❖ Fort Street High School SRC, 2009 – 2013
- ❖ Member of NSW Arts Unit Ensembles (toured internationally), 2009-2014

Referees

- ❖ Available upon request