Jamie Phan

Software & Electrical Engineer
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Education

The University of Western Australia — W.A., Australia
Master of Professional (Electrical and Electronic) Engineering — Jan. 2017 – Jul. 2019

The University of Western Australia — W.A., Australia
Bachelor of Philosophy (Hons.) in Engineering Science — Jan. 2013 – Nov. 2016

Awards & Certifications

Recognised Consulting Team Member (PwC AU)	2018
UWA Bachelor of Philosophy Hons. Award (UWA)	2013
UWA Excellence Award (UWA)	2013
Best and Brightest Award (Dept. Ed. WA)	2012
Certificate of Commendation (SCSA WA)	2012
Recognition of Outstanding Achievement (Institution of Engineers, Australia)	2012
DUX (Top Student) Award Overall & Mathematics (Willetton Senior High School)	2012

Technical Skills

Languages	C, C#, Python3, Java, Kotlin, GoLang, HTML/CSS/JS, Lua
Web Development	Python Flask/Django, Bootstrap4, Node.js, React.js, GraphQL, SpringMVC
UI Development	PyQt4/5, Python Tkinter
Databases	T-SQL & SQL-Server, Oracle, SQLite
Data Analysis & Visualisation	Mathematica, MATLAB, TensorFlow, PowerBI, Spotfire, GNU-R, Alteryx, VBA
Graphics	Unity, Blender, Inkspace, GIMP
CAD / Modelling	CADSoft Eagle, OrCAD schematic capture, Cadence, PSCAD
Other	LaTeX, git, gradle, bash, GCP, docker

Professional Experience

ANZ Australia — Vic., Australia
Software Engineer — Mar. 2020 – Current

- Backend engineer for the development of internal banker tools.
- Developed and maintained large enterprise code base.

PwC Australia — W.A., Australia
Senior Consultant — Oct. 2017 – Mar. 2020

- Led technical development of an integrated planning platform for clients from various industries. Provided supply chain production optimisation for mining (iron ore and nickel) and shipping.
- Responsible for database design, administration, integration of services, data management and various data analysis exercises to provide insights and improvements to supply chain planning.

BHP Billiton Iron Ore — W.A., Australia
Research Intern — Jan. 2017 – Dec. 2018

- Conducted academic Final Year Research Project with an industry partner in the resource sector.
- Investigated improvements in supply chain scheduling at the tactical level with a Python data analysis platform, interfacing with C# .NET optimisation algorithm.

CSIRO — N.S.W., Australia
Vacation Researcher — Nov. 2016 – Feb. 2017

- Investigated predictors of energy consumption behaviours in Australia using statistical analysis such as OLS, Step-wise and LASSO.
- Developed Python Tkinter GUI for data visualization of energy reports.

DESAV Development — W.A., Australia
Junior Engineer — Nov. 2015 – Sep. 2016

- Responsible for design and simulation of electrical systems for EV applications, specifically focusing on high voltage DC propulsion and traction energy supply systems.
- Implemented TI's BQ76PL455A-Q1 battery monitor for battery management of lithium ion batteries. Designed and selected components for circuitry through extensive research. Used CADSoft's Eagle for PCB design.
- Implementing AVR host control through UART and top-level information management through CAN bus.

International Centre for Radio Astronomy Research (ICRAR) — W.A., Australia
Research Assistant — Jan. 2013 – Sep. 2015

- Conducted automated literature searches using Python scripts to parse and scrap data.
- Investigated supernovae properties using SAOImage DS9 FITS image processing software.

Research

The radial distribution of supernovae compared to star formation tracers.
F.M. Audcent-Ross, G.R. Meurer, J.R. Audcent, S.D. Ryder, O.I. Wong, J. Phan, A. Williamson, & J.H. Kim
In: Monthly Notices of the Royal Astronomical Society. Feb. 2020, Vol 492(1) https://doi.org/10.1093/mnras/stz3282,

Feature extraction analysis for automatic power quality disturbance classification
J. Phan, The University of Western Australia
for: Dissertation for Bachelor of Engineering Science (Hons.). Oct. 2016