Jaric Thorning

0000 000 000 | example@email.com | linkedin.com/in/jaricthorning | github.com/jaricthorning

EDUCATION

University of Queensland	Brisbane, Australia
Bachelor of Electrical and Computer Engineering (Honours) (Dual Major)	*Feb 2014 - Jun 2020*
Bachelor of Computer Science	*Feb 2014 - Jun 2020*

EXPERIENCE

Morse Micro — Sydney, Australia

Team Lead, System Integration Testing — *Jan 2023 - Present*
- Managing a cross-functional team of five engineers, with varying seniority and experience. Overseeing the development of automated real-world test infrastructure. Responsible for sprints, team meetings, 1:1s, performance reviews, OKR definition, cross-team collaboration, and reporting to senior leadership.
- Led international Wi-Fi HaLow interoperability and coexistence test events for the Wireless Broadband Alliance. Developed a series of stand alone test applications, including a 2D throughput survey, a GPS based signal strength monitor and an ESP-32 based HaLow weather station.
- Built an on-device Flask based data capture tool to help run HaLow/ Z-Wave coexistence testing. Resulting in a smooth key customer demo, with live data capture updates.

Applications Engineer — *Jan 2022 - Jan 2023*
- Solely responsible for comprehensive Python-based automation suite, used for both lab and real-world field testing. The suite automates the running of tests, visualisation of data, and final report generation. It uses a combination of asyncio, asyncSSH, fastAPI, SQLAlchemy, PostgreSQL, pandas, matplotlib, plotly/dash, and fpdf.
- Designed an AWS OpenVPN data back-haul solution for remote in-field testing and created a Python CLI for user/certificate management.

Graduate Engineer (Software) — *Jan 2021 - Jan 2022*
- Wrote a TLV based UART communication protocol in C, enabling removal of the standard printf library and resulting in 20% lower overall memory usage.
- Debugged chip firmware issues, including interrupt handler exceptions and compiler optimisation issues.

Arup — Brisbane, Australia

Undergraduate Engineer — *Nov 2018 - Feb 2019*
- Designed and verified standards based road lighting using simulation models.

Anglo American — Middlemount, Australia

Undergraduate Engineer — *Nov 2016 - Feb 2017*
- Created and validated entire mine site High Voltage plans, in time for annual regulatory testing.

PROJECTS

LoRaWAN WSN | *Python, Django, C, MQTT* — *Jun 2017 - Jan 2020*
- Implemented a Wireless Sensor Network (WSN) to monitor environmental conditions around the University of Queensland Lakes.
- Wrote C firmware to capture data and send over LoRaWAN network using MQTT.
- Designed a full stack web application using Django. Backend set up to receive incoming data from MQTT server and serve data to frontend. Frontend designed to provide real-time sensor updates and data visualisations.

divvy | *Python, React, Django, Swift* — *Jan 2024 - Present*
- Currently developing an open-sourced expense sharing platform, using a react frontend, django backend and swift iOS standalone application.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, PostgreSQL, JavaScript, HTML/CSS
Frameworks: Django, Flask, FastAPI, React, Node.js, PyQT, pytest
Developer Tools: Git, Visual Studio, Jenkins, Bitbucket
Libraries: pandas, numpy, matplotlib, asyncio