

GARETH SEDDON

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83 Coppin Street, Richmond, Victoria, Australia

SUMMARY

Enthusiastic software engineer, specialising in concurrent systems and functional programming.

Tech lead experience, including design of key integration with a partner company (Zoom). Previous experience with telco scale big data pipelines, handling upwards of 10k events/second, with an emphasis on extremely high availability. Significant knowledge and use of Kubernetes, both from a developer and DevOps perspective.

Excellent teamwork and communication skills amplify effectiveness when working with others. Relentless tinkerer with a love of automation, whether it's business processes, programming and design tools, or the technology in the home.

Experience in a range of sectors, including corporate, start-ups, and academia. Strong believer in continuous self-education, currently working through the famous text Structure and Interpretation of Computer Programs.

TECHNICAL STRENGTHS

Roughly ordered by proficiency

Languages	Elixir, Python, Javascript, C, Nix
Concepts and systems	Functional Programming, Concurrent design, Kubernetes, OSI stack, Time series data, Kafka, Grafana
Tools	Linux, Emacs, git, Nixos, Prometheus

EDUCATION

Master of Engineering	<i>2017</i>	Bachelor of Science	<i>2015</i>
University of Melbourne		University of Melbourne	
· high speed signal processing, networking and embedded systems		· Major in Electrical Systems	
· Distinction average			

EXPERIENCE

Dubber Corporation March 2020 - Current
Developer

- Key projects have been design and implementation of very high-reliability connectors to transfer call recordings from partners including Zoom and Ring Central to the Dubber platform, in Elixir. Excellent experience with high availability, globally distributed systems.

Telstra Corporation January 2018 - March 2020
Technology Specialist

- Part of a team of engineers developing high-throughput big data pipelines, for Australia's largest telecommunications company. Contributed to projects handling all parts of the pipeline, including ingestors, resiliency, and outputs including API endpoints and database adapters. Also actively write and manage the Kubernetes setup for all of the above. Key tools include Elixir and its Phoenix web-server, Kafka, Kubernetes and Nixos, as well as time series databases such as InfluxDB, VictoriaMetrics and TimescaleDB.

Black.ai

November 2017 - January 2018

Embedded Systems Engineer

- Successful contract role to design, source, and manufacture a high speed motherboard for the Nvidia Jetson machine learning module.

University of Melbourne

February 2017 - November 2017

Tutor - Engineering Computation

- Taught weekly workshops and classes where students were instructed in fundamental computer science concepts, using the C language. An opportunity to share knowledge with students of diverse backgrounds and experiences.

IBM Australia Limited

January 2016 - January 2017

Intern - Interactive Experience (Digital Practice)

- Developed mobile applications for large government and enterprise clients, such as the Melbourne Spring Fashion Week iOS application.
- Assistant project manager for a social media analytics project with a local government body. Gained useful insight of corporate project lifecycles and stakeholder management from a business perspective.

CERTIFICATES AND COURSES

- NAND2Tetris: Design and build a modern computer from first principles
- Structure and Interpretation of Computer Programs
- Machine Learning with Andrew Ng
- IBM Design Thinking Practitioner

REFERENCES

References available upon request.