

Melbourne, Australia - GMT +11 hours

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Summary

Experienced Software Engineering Manager with a proven track record of leading high-performing teams and delivering complex, scalable software solutions. Skilled in architecting and implementing microservices-based systems, leveraging modern design patterns and best practices. Passionate about building robust, secure, and user-friendly applications, with a keen eye for identifying and mitigating security vulnerabilities. Proven ability to drive technical direction, mentor engineers, and foster a culture of continuous improvement. In my spare time, I enjoy building, riding, and racing bicycles, creating audio visual DJ sets and blogging.

Experience

Zero Hash Melbourne, Australia (Remote)

SOFTWARE ENGINEERING MANAGER

Jul. 2022 - Feb. 2024

- Spearheaded the Participants team, a fully remote, globally distributed team, in the development and launch of two business-critical systems: an customer jurisdiction check system and a redesigned KYC/AML onboarding flow
- Mentored and guided a team of six engineers, fostering their professional growth and technical expertise through regular 1:1s, constructive feedback, and opportunities to tackle challenging projects
- · Actively cultivated a culture that embraced technical debt as a catalyst for team growth and system enhancement
- Drove strategic technical direction and decision-making for the Participants domain, ensuring alignment with the company's overall architectural vision and business objectives
- Demonstrated strong communication and stakeholder management skills, effectively articulating technical concepts, project updates, and potential roadblocks to both technical and non-technical audiences

SENIOR SOFTWARE ENGINEER

Jul. 2021 - Jul. 2022

- Developed and implemented key features for a participant management platform, including new microservices relating to modifying and retrieving settings
- Contributed to the transition of a platform from a monolithic architecture to a microservices-based design, incorporating CQRS principles, to enhance system agility, stability, and maintainability
- Implemented a new, more robust real-time data streaming service in Go, replacing a pre-existing service that had reliability and testability issues, utilising WebSockets for real-time communication.
- Improved the reliability and maintainability of the greater user data management system by designing and implementing integration tests to enhance the system's ability to reliably handle user requests

WBP Rating Valuation Services

Melbourne, Australia

SOFTWARE ENGINEER

(contract) Oct. 2020 - Feb. 2021

- · Used machine learning and linear regressions via Scikit-learn, Pandas and Python to value commercial properties
- Reduced complexity and increased valuation accuracy by distilling 91% of commercial properties from 26 to 5 property subgroups
- Introduced a new factor to be applied to commercial property valuations based on the location using nearest neighbour search and normalisation of property age and size, improving valuation accuracy by over 25%

Huglo Sydney, Australia (Remote)

LEAD SOFTWARE ENGINEER

(contract) Sep. 2019 - Aug. 2020

- Developed an electricity price comparison engine built with Django, to compare all plans Australia wide, saving customers an average of 15%
- Implemented a scraper to continuously scrape, parse and process over 7000 constantly updating energy plans using Python on AWS ECS and Fargate
- · Managed software system design in consultation with the CEO, balancing reliability, maintainability and scalability
- Lead team in developing the final product, a React web-app

ClaroKey Msida, Malta (Remote)

Advisor

(contract) Nov. 2018 - Jun. 2019

- · Developed the business model and token economics of a new cryptocurrency in consultation with the directors
- · Worked in close consultation with BDO and PWC Malta to ensure the token sale was compliant with Malta's regulatory framework
- Reviewed and amended the token's smart contracts written in Solidity

Mo Works Creative Agency

Melbourne, Australia

CRYPTOCURRENCY ADVISOR, SOFTWARE ENGINEER, GROWTH HACKER

Oct. 2017 - Mar. 2019

- Guided cryptocurrency startups running ICOs through the marketing and raising process, resulting in over \$20m in tokens sold for clients
- · Proactively detected and mitigated hundreds of attempted scams before ICO launches by developing Node and Python Telegram bots
- · Halted an ETH address spam attack on Telegram, alerted and reduced the severity of a client of a time sensitive DDOS attack
- Performed requirement analysis and designed the architecture for the Zukaz voucher app
- · Attended conferences and networked with global blockchain leaders in Europe to promote both Mo Works and our clients
- Prepared business models, white papers and token economic models

Trouble Juice troublejuice.co

CO-FOUNDER, FOUNDING ENGINEER

- Co-founded Trouble Juice, an online platform to promote emerging musicians, and growing to over 200k page views
- Designed and built the Trouble Juice website using WordPress, hosted on AWS
- Set up our mail server, automatic backups and continuously improved SEO

Axxin - Biomedical Diagnostic Instruments

Melbourne, Australia

SOFTWARE TEST ENGINEER

Oct. 2016 - Feb. 2017

Feb. 2017 - present

- · Wrote and executed strict software verification and validation protocols to allow our medical diagnostic instruments to gain FDA (US) approval
- · Identified software bug in calibration system causing intermittent incorrect test results on thousands of machines
- Conducted code reviews and suggested optimizations to the source code

Let's Talk Medical Research / University of Melbourne School of Medicine

Melbourne, Australia

WEB DESIGNER AND DEVELOPER

Mar. 2016 - Aug. 2016

- · Consulted with researchers and university staff to design and build web-app using AngularJS
- · Connected web-app via API to a form backend platform to reduce unnecessary complexity

Bells Pure Ice Melbourne, Australia

Transport Allocator 2013 - 2015

- Received ice orders, planned routes for drivers to most efficiently deliver the product
- · Streamlined data entry processes through automation, significantly improving efficiency and reducing manual errors

Personal Projects_

Toms Telegram Bot Collection

telegramubots.com

FOUNDER, SOFTWARE ENGINEER

Aug. 2018 - present

Melbourne, Australia

Melbourne, Australia

- Built a collection of bots to reduce spam in large Telegram groups using Express and Node.js
- Ran the service with zero cost for the first two years by leveraging Glitch
- Scaled to > 2 million actions per month, monitoring groups with upwards of 50 million total users

Pentesting

ETHICAL HACKER 2017 - Present

- $\bullet \ \ \text{Found and exploited } \text{vulnerabilities in the AFL, Spintel and Quixxi with code and endpoint inspection using Chrome DevTools and Python scripts}$
- · Followed a responsible disclosure approach with aforementioned organisations, proposing solutions resulting in vulnerabilities being patched
- · Focus on code and endpoint inspection to find sensitive data exposures

Skills_

Languages / Databases Go, Python, TypeScript, JavaScript, Java, LaTeX, PostgreSQL, Redis, SQL, CouchDB

Frameworks / Libraries / Tools NATS, Django, Eleventy, React.js, Node.js, Express, Pandas, Metabase, Git

Infrastructure / Config Kubernetes, Argo, Unleash, Prometheus, Grafana, Loki, APM, Opsgenie, AWS, Docker, Linux, Netlify

Marketing SEO, Google Analytics, Growth Hacking

Soft Skills Communication, Collaboration, Active Listening, Team Leadership, Project Management,

Decision-Making, Problem-Solving, Continuous Learning, Adaptability, Initiative

Achievements & Recognitions

2021	Hacker News #2 post Who won the Amstel Gold Race? Human error in photo-finishes	The Internet
2019	Leaders in Communities Award	University of Melbourne
2018	Lead Presenter Intro to Blockchain Technology, Cryptocurrencies and ICOs	Hatch Quarter
2017	Winning Team Cluster and Cloud Computing Twitter data project	University of Melbourne
2015	World Champion Track	Cycle Messenger World Championships
2014	President Melbourne University Cycling Club - MUcyc	University of Melbourne
2010	College Captain	St Bernard's College
2009	Australian Defence Force Leadership Award	St Bernard's College

Education

ME, Master of Engineering (Software)

THE UNIVERSITY OF MELBOURNE 2015 - 2019

BSc, Bachelor of Science (Mechanical Systems)

THE UNIVERSITY OF MELBOURNE 2011 - 2014