

Tom Lynch

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Summary

Software Engineer with 5+ years of experience of developing scalable software and systems. Skilled in web development, data engineering and security. Excellent communicator and competent leader. Inquisitive. An impromptu pentester, with success finding exploits. Whether solo coding or bouncing ideas off team mates there's no better feeling that getting to the bottom of a problem with a solution that works. In my spare time I build, ride and race bicycles, design t-shirts and blog.

Experience

WBP Rating Valuation Services

Melbourne, Australia

SOFTWARE ENGINEER

(contract) Oct. 2020 - Jan. 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

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

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

Feb. 2017 - present

- 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

- 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

- Planned routes for drivers to most efficiently deliver the product
- Received and placed ice orders via phone swiftly and accurately from stores state-wide

Personal Projects

Toms Telegram Bot Collection

telegramubots.com

FOUNDER, SOFTWARE ENGINEER

Aug. 2018 - present

- 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

- Found and exploited 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 vulnerabilities being patched
- Focus on code and endpoint inspection to find sensitive data exposures

Technical Skills

Languages / Databases Python, JavaScript, Java, LaTeX, SQL, PostgreSQL, CouchDB

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

Infrastructure / Config Linux, AWS, Docker, Glitch, Netlify

Marketing SEO, Google Analytics, Growth Hacking

Honours & Awards

2019	Leaders in Communities Award , University of Melbourne	Melbourne, Australia
2017	Winning Team , Cluster and Cloud Computing - Twitter big data project	University of Melbourne, Australia
2015	World Champion - Track , Cycle Messenger World Championships	Melbourne, Australia
2010	College Captain , St Bernard's College	Melbourne, Australia
2009	Australian Defence Force Leadership Award , St Bernard's College	Melbourne, Australia

Education

ME, Master of Engineering (Software)

Melbourne, Australia

THE UNIVERSITY OF MELBOURNE

2015 - 2019

BSc, Bachelor of Science (Mechanical Systems)

Melbourne, Australia

THE UNIVERSITY OF MELBOURNE

2011 - 2014