

Tom Hadzioannou

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EDUCATION

University of New South Wales

Master of Information Technology

Sydney, NSW

2018 – 2020

University of Sydney

Bachelor of Liberal Arts & Science, majors in Philosophy and Computer Science

Sydney, NSW

2014 – 2018

EXPERIENCE

Senior Software Engineer

July 2022 – Present

Service NSW

Sydney, NSW

- Stack: Kotlin, Java, React, MySQL, AWS, Gitlab CI, VMware Tanzu Application Service (TAS), Docker, Kubernetes, JFrog, Snyk
- Developed solution for automated deployments through our Gitlab CICD pipelines to enable safer, faster and more reproducible automated deployment
- Implemented Snyk static and dynamic analysis of our applications to ensure we can effectively monitor our security posture and allow for us to track progress against new security vulnerabilities
- As part of major organisation security initiative, upgraded dozens of our applications multiple times and helped reduce our active vulnerabilities from several thousand (including 100s of critical and high severity vulnerabilities) to total 100 (with no critical and high severity vulnerabilities) in early 2023
- Completed discovery task of exploring Kubernetes as a potential deployment target for our applications, including developing a solution to deploy any of our applications via automated pipelines to a multitenant Kubernetes cluster as well as documenting all design considerations, risks, migration path and a quickstart guide for other developers in our team to help upskill them in Kubernetes

Full Stack Engineer

February 2021 - April 2022

Immutable

Sydney, NSW

- Stack: Golang, Typescript, PostgreSQL, AWS, Terraform, Newrelic, React, Docker
- Worked on every software component of a complex blockchain marketplace protocol and layer 2 scaling solution called Immutable X that powers numerous NFT marketplaces. Built and improved on payment and trading primitives
- Worked closely with various cryptography and blockchain concepts like zero-knowledge proofs and Elliptic Curve Cryptology
- Headed an optimisation initiative to improve performance of our most computationally intensive user operation. Saw a 10-20x improvement on p95 traces
- Helped with a database-centric optimisation and reliability initiative to achieve an apdex of over 0.93 under systemwide load of 200k rpm
- Built an end-to-end CI/CD testing environment and suite that simulated our entire system, including forked blockchains, for each pull request's own deployment
- Added royalty fee sourcing, extraction and distribution mechanisms for people who used the protocol
- Instrumented an analytics system for our platform
- Built a responsive frontend marketplace in ReactJS that interacts with our backend system

Full Stack Developer

2017-2020

Resident Advisor

Sydney, NSW & London, UK

- Stack: .NET & .NET Core, React, SQL Server, GraphQL, ElasticSearch
- Worked in an Agile development team. With an immediate Scrum team and with a remote Scrum team, developed and maintained a ticketing platform
- Carried out and led daily deployments to a load-balanced server environment delivering content to millions of unique monthly users
- Migrated key services to the cloud in line with a microservices architecture e.g. migrating our millions of monthly emails to AWS SES
- Created ETL data pipeline to provide our company with crucial and near-realtime business intelligence
- Implemented a containerised and cloud-deployed textual search service built on ElasticSearch
- Created a responsive sales statistics UI and platform for our ticketing clients
- Helped in implementation and use of mobile-first design system for the website's redesign
- Refactored legacy code and extracted business logic into a layered architecture and secured it with rigorous automated and manual testing

TECHNICAL SKILLS

Languages: Golang, Python, C#, Kotlin, Java, C, SQL (Postgres, SQL Server, MySQL), JavaScript, bash, HTML/CSS, Rust

Platforms & Tools: Kubernetes, Unix, AWS, Gitlab CI, SQL, New Relic, Splunk, Node.js, Nginx, Terraform, Snyk, Docker, ElasticSearch, Redis, SEED Deploy, Figma, Confluence, Miro, JIRA, IntelliJ, VSCode, vim, bourne shell, zsh

Patterns: GitOps, Continuous Integration/Continuous Delivery, Library development, CQRS, Domain Driven Design, Test-Driven Development, MVC

Libraries & Frameworks: .NET, Spring, React, Express, pandas, NumPy, Matplotlib, PyTorch, Scikit-learn, Jest, JUnit

Process: Agile, Source control, Documentation, Technical Designs, Code pairing, Code reviews, Test plans & runsheets