Tom Hadzioannou

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EDUCATION

University of New South Wales Sydney, NSW
Master of Information Technology *2018 – 2020*

University of Sydney Sydney, NSW
Bachelor of Liberal Arts & Science, majors in Philosophy and Computer Science *2014 – 2018*

EXPERIENCE

Senior Software Engineer July 2022 – Present
Service NSW *Sydney, NSW*

- TODO
- TODO
- TODO

Full Stack Engineer February 2021 - April 2022
Immutable *Syndey, 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