RESUME – Michael Milewski

Professional Summary

Senior Software Engineer with 20+ years' experience across FinTech, HealthTech, and startups. Expert in improving developer experience, leading cross-functional initiatives, and cultivating strong engineering cultures through TDD, mentoring, and internal tooling. Frequent international speaker and hackathon winner with a passion for innovation at the edge of hardware and software.

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this resume lives at Github saramic/learning/RESUME.md

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2023 Jun - Present Senior Engineer Mable

- **"Tooling & Developer Experience"**
  - **Sweeping Improvements in the Support Squad**
    - Established continuity processes between support squads like weekly logs, structured playbooks and alerting, handover meetings for both support squad and over arching team leaderships which in turn lead to proactive fixes that reduced future problems.
  - **Improving Reproducibility & Tooling for Development**
    - Fixed drift in database migrations between production, release and developer environment as well as added tooling in CI (Continuous Integration) and developer-friendly tooling to prevent future discrepancies and avoid timely outages.
    - Drove adoption of better tooling for repository setup and maintenance like Makefiles, Justfiles, ASDF adoption, Brewfile configuration, and API documentation—many of which have now become organic best practices across teams.
- **"Mentorship & Engineering Culture"**
  - **Teaching & Mentorship Through the Coding Dojo**
    - Ran a weekly coding dojo for over 1.5 years, focusing on pairing and test-driven development (TDD). Created a space where developers of all levels felt empowered to take the lead and drive sessions. Fostered a culture of cross-team learning, allowing engineers from various teams to participate, teach, and elevate Mable's overall engineering capability.
  - **Cross-Team Collaboration & Engineering Culture Building**
    - Ran meetings across various parts of engineering both Backend and Frontend to improve engineering output, sharing of information and address technical

and security issues. Re-architected the ADR (Architecture Decision Record) process to be more of a reference for why decisions were made. Drove a large change in linting across the codebases to reduce unnecessary code churn in reviews which spend up the review process overall.
- ◦ **Innovation**
    - ▪ Created a cross-team "bat signal" IoT hackathon project using MQTT and ESP32; sustained community via bi-monthly hobby meetups.
    - ▪ introduced team to outside in BDD and flow style testing.
    - ▪ introduced the Front/End team to unit testing using vitest.
    - ▪ prototyped a bunch of other approaches like: AWS CDK deployments, RUST lambdas, Terraform for local development, bitmap DB indexed data and a share repository for all developers to share their spikes and findings.
- • **"Cross-Service Architecture"**
    - ◦ Architected a scalable cross-service comms layer, evolving from point-to-point to Kinesis-based streaming; used transactional inbox/outbox and robust Datadog monitoring.

2018 Oct - Present Conference Speaker and Mentor

- • **Speaking Engagements:**
    - ◦ presented developer practices around testing, pairing, hardware and architecture at international conferences including: NDC Melbourne 2025, NDC Sydney 2024, NDC Copenhagen Developer Festival 2023, RubyKaigi 2023, RailsConf 2023, OpenConf Greece 2023, React Miami 2023, RailsConf 2019, RubyConf AU 2020, ReactConf AU 2020
    - ◦ presented at over 25 other speaking engagements on topics like features of Rails, using VI, coding Arduino including Melbourne Ruby Meetup, Sydney Ruby Meetup Melbourne Python Meetup, Melbourne React Meetup, DDD Melbourne, Google DevFest 2019
- • **Mentoring & TDD:**
    - ◦ paired with over 80, 15 in recurring 1:1s (outside of work colleagues)
    - ◦ ran numerous pair programming and TDD sessions both at work and with a number of coding bootcamps like: Le Wagon Melbourne and Holburton School Australia.
- • **Hackathons:**
    - ◦ Gov Hack winning project 2018
    - ◦ 3rd place Unearthed hackathon 2017
    - ◦ numerous other hackathons including Square Unboxed hackathon 2021, PayPal/ Braintree hackathon as well as numerous Melbourne Datathons.

2021 Nov - 2023 Jun Senior Developer Zepto

- • **Ledger product**
    - ◦ worked on a ledger product that was brought in using Packwerk to help split the Domain model of the monolith.
    - ◦ used ideas from Hexagonal Architecture to make it more testable
    - ◦ prototyped moving to Kafka for message passing.
- • **Logging with DataDog**
    - ◦ DataDog Dashboards and Monitors as code (DevOps style) repo using Terraform, GitHub Actions and conversion scripts to allow for fast updates and deploys of DataDog settings.

- **PayTo**
  - took part in the companies premier deliverable for 2022/2023, PayTo, and was instrumental in surfacing issues around dependencies that had a crucial impact on delivery timelines
- **Support of FinTech App**
  - took active role in supporting and debugging various error cases that caused duplicate payments to be processed. Expanded test suite to highlight various error cases that were discovered through various app disruptions.

2021 Jun - 2021 Nov Senior Software Developer Black Box Co

- **architecture:**
  - design and start building a data processing pipeline
  - built out various calculation and summarisation algorithms
- **testing and development methodologies:**
  - grow code and team understanding of integration and unit testing at various levels
  - bring in ideas of feature toggling and decoupling deployment from release
  - explore the viability of true Continuous Integration through trunk based development
  - demonstrate the improved development speed, system understanding and correctness of implementation through proper testing
- **developer tools:**
  - improve productivity through various tooling to standardise setup, improve code consistency and reduce expensive re-work
  - put in place structures and procedures to store all work and findings across all developer work in easy to access repositories
- **innovation:**
  - investigate and prototype faster data processing using Apache Spark, PySpark, Apache Arrow and Rust Datafusion

2017 Sep - 2021 May Software Engineer Fresho

- **team leading:**
  - lead first team at Fresho around finance integration work, lead team around core feature development
  - instrumental in hiring and building the team by over 30%,
  - brought in and supported one-on-one's feedback mechanism between all members in development team
- **architecture:**
  - designed and implemented migrating from our legacy Ember SPA front end to a composite of Rails Views and React Component front ends
- **project rollout**
  - ran project for a multi user multi supplier shopping cart, called buying list.
  - instrumental in converting Fresho B2B model to a B2C model during COVID-19 pandemic
  - built out Xero integration and ultimately Xero certification
- **innovation:**
  - sharing Fresho's best of breed development practices at international conferences,
  - prototyping and implementing an invoice scanning and reading solution using AI,
  - prototyping a shop floor scale that integrates with Fresho via the cloud as part of "Capability Day" initiative.

2017 Jul-Aug Team Lead Dekeo startup as part of jiffyshirts.com

- attempted to bring lean thinking, agile and XP practices into the team but ultimately left due to mismatch with company expectations and their readiness for the startup.

2014-2017 Software Engineer Redbubble

- lead engineer new frontend architecture team - bringing in React, Node, BFF architecture pattern
- senior engineer product team
    - helping with junior engineers
    - work in re-architecting core product model in rails monolith
- team lead customer engagement team running over 30 experiments in customer stickiness space,
- team lead operations team moving core site onto a cloud platform.

2011-2014 Software Engineer Bikeexchange

- 1st full time engineer - making app multi-tenant for 5 other partner businesses, creating customisable taxonomy of products, helping build the team and bringing in angular 1.3 and making the site responsive

2005-2011 Software Engineer Realestate.com.au

- Team lead REA widgets - javascript/api integration for 3rd party websites
- Team lead RPData integration project (Rails/Ruby)
    - first agile project in REA-group under guidance from thoughtworks
- Perl developer and later lead in AgentDesktop project

2000-2005 Software Engineer Telstra

- Perl and Java on backend admin application for Bigpond Broadband

1994-2000 Monash University Clayton

- Bachelor of Computer Science
- Bachelor of Mechanical Engineering (with honours)

Hobbies and other interests

- **outdoors:** camping, hiking, bike riding, fly fishing, inline skating, paddleboarding
- **art:** with my kids I like to have a crack at: ukulele, recorder, piano, whittling and drawing
- **reading:** mostly technical and leadership books, often as part of book club
- **community:** part of the Polish Scouting running camps for kids and a troop leader in Melbourne Metro area
- **electronics/radio:** interest in electronics and looking to getting a HAM amateur radio licence in 2024 or 2025 - https://saramic.github.io/ham-radio/