Nathan Birrell

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Experience

MYOB
Senior Software Engineer (Contract)

OCT 2023 - PRESENT
Melbourne, AU (Remote)

- Strategic guidance on MYOB's NextJS public website, guiding architecture decisions, component library prop-APIs, localisation and partial prerendering to improve core web vitals score.
- Introduced **trunk-based git workflow** with feature flagging and commit conventions to achieve smaller changesets, more focussed code reviews and quicker release cycles.
- Reduced inbound calls to support phone lines by building a Support Article Search with Algolia and React. Built to be re-used and re-styled (ie. MYOB Apps Search) with strong SEO in mind.
- Other areas of focus: **Core Web Vitals**; integration with **Contentful** CMS; and middleware performance.

Stax (by Versent)
Senior Software Engineer

OCT 2018 - OCT 2023
Melbourne, AU (Remote)

- Stax is a B2B SaaS cloud management platform, for deploying and monitoring AWS infrastructure. In October 2023, Stax & Versent sold to Telstra for $267.5m.
- Ownership of long-term strategy for a production **Typescript & React** frontend application, a component library (**Storybook**) and a backend API service (**AWS Lambda**, AppSync).
- Led architecture and delivery for a backend-for-frontend project. Simplied interfacing with microservice APIs through one **GraphQL API**, leveraging highly scalable event-driven, serverless architecture.
- Scaled the team from 5 to 30+ engineers, establishing best practices for our growing organisation: Jest unit test coverage, **E2E tests**, ESLint linting, trunk-based git workflow and a living DEVELOPMENT.md.
- **Mentoring** junior engineers across different timezones, helping them grow their skills and confidence through **pair programming**, 1:1s, helping **write ADRs** and leading workshops.
- Also achieved: faster CI build times; increased **code review frequency** with Angular Commit Style and Conventional Comments reviews; and more efficient releases through Semantic Release.

Bureau of Meteorology
Frontend Engineer (Contract)

MAR 2018 - OCT 2018
Melbourne, AU

- Built a new weather experience for Australia's most visited weather website.
- Improved reliability and protyping speed with static typing & tree-structured state management library (React, Typescript, **Mobx** and mobx-state-tree; integrations with weather **REST API** services).

Belong (by Telstra)
Frontend Developer

NOV 2016 - MAR 2018
Melbourne, AU

- Introduced **Redux** state management to our React frontend. **Expo React Native** app for iOS/Android.
- Migration away from legacy Knockout/JQuery app. Integration to **Adobe AEM** content management.

Deloitte Digital
Graduate » Consultant (Frontend Developer)

JAN 2014 - NOV 2016
Melbourne, AU

Education

Royal Melbourne Institute of Technology (RMIT University)
Bachelor of Business (Information Systems)

2012-2015
Melbourne, AU

Skills & Interests

- **Frontend:** React, Typescript, Javascript, NextJS, Jest, HTML, CSS, PostCSS, Storybook, Playwright.
- **Backend:** Node, Express, **Vitest**, GraphQL, REST, relational & NoSQL databases and Ruby on Rails.
- **Infra: SST**, **Nx**, AWS Lambda, ECS, AppSync, DynamoDB, CDK, Buildkite and Docker.
- **Skills:** solution architecture, event-driven architecture, monorepos, mentoring, Agile