NATHAN VALE - SENIOR FULL STACK ENGINEER

0475 638 039 hireme@nathanvale.com Located in Melbourne, Victoria, Australia

# Profile

With 10+ years of experience in full stack development, I’ve consistently delivered high-impact, enterprise-level applications across industries such as energy, banking, online wagering, telecommunications, and entertainment. My focus is on creating engaging and immersive user experiences through the latest front-end technologies.

I believe in the power of collaboration to achieve project success. By being part of teams with accountability and clear communication, I drive projects forward, ensuring alignment with stakeholder goals and delivering exceptional outcomes.

As a results-driven professional, I’m excited to bring my expertise to your organization and contribute to its continued innovation and success.

# Experience

SENIOR FULL STACK ENGINEER, ORIGIN ENERGY — OCT 2023 – PRESENT

1 year

Returned to Origin Energy, contributing to the Virtual Power Plant (VPP) and Zero projects, with a focus on developing React microsites and improving user interfaces for energy management solutions.

* Front-end development for React-based microsites, utilizing MUI and Styled Components to ensure design consistency and scalability.
* Implemented an inline React-PDF display solution, allowing seamless document viewing within the microsites, enhancing user experience and accessibility.
* Developed and optimized complex table data displays, ensuring efficient rendering and smooth interaction for large datasets.
* Integrated REST API services using Node.js, leveraging Swagger for API documentation and testing, ensuring robust and well-defined endpoints for seamless data exchange.
* Built reusable Node.js modules for API consumption, including dynamic query parameter handling, enhancing efficiency and reducing redundancy across services.
* Collaborated closely with cross-functional teams, applying agile methodologies and continuous integration to deliver high-quality, maintainable solutions.

Tech stack: React.js, TypeScript, Node.js, MUI, Styled Components, react-pdf, AWS Lambda, GraphQL, Jest, Swagger

SENIOR FRONT END ENGINEER, SPORTSBET — APR 2023 – SEPTEMBER 2023

6 MONTHS

Contributed to the reimplementation of a global React Native UI component library, ensuring design consistency and enhancing user experience across iOS and Android platforms. Successfully delivered this high-priority project in time for the 2023 Spring Racing Carnival, supporting millions of users during one of the peak sporting seasons.

* Contributed to the reimplementation of a global React Native UI component library, delivering a scalable architecture that supported code-sharing solutions between web and mobile platforms. This approach streamlined development efforts and ensured consistency across applications.
* Designed and implemented reusable, scalable components, enabling a more efficient development process and reducing time-to-market for new features. Focused on maintaining a cohesive user experience across web, iOS, and Android.
* Collaborated with cross-functional teams to align mobile and web development strategies, ensuring the technical roadmap supported business goals and user needs.
* Optimized the application architecture for code-sharing by incorporating modular design principles, enabling future scalability and adaptability as part of a strategic vision for mobile-first development.
* Provided technical leadership in decoupling components for shared usage across platforms, contributing to a unified codebase and reducing maintenance overhead.
* Contributed to knowledge sharing through code reviews, documentation, and mentoring, fostering a culture of collaboration and continuous improvement within the development team.

**Tech stack:** React Native, TypeScript

SENIOR FULL STACK ENGINEER, AUSTRALIA POST — MAY 2022 - APRIL 2023

1 Year

Contributed to product innovation and process improvements within the engineering team, enhancing Australia Post’s identity services. Delivered optimized solutions and aligned development workflows to increase efficiency and quality across products.

* Led the development of accessible, high-quality user interfaces for Australia Post’s identity services, serving millions of customers nationwide. Implemented best practices to ensure that applications met WCAG 2.1 accessibility standards.
* Collaborated closely with cross-functional teams, including designers, product managers, and backend engineers, to deliver seamless user experiences across various products.
* Built and maintained scalable solutions using React.js and effectively integrated AWS Lambda and DynamoDB to ensure seamless data handling and efficient serverless architecture, enabling high scalability and reliability.
* Developed Node.js utilities for interacting with DynamoDB, including query optimization and batch processing, to improve data handling efficiency. Created comprehensive tests for these utilities using TypeScript, Cypress, and Jest, ensuring reliability and maintainability.
* Wrote unit and integration tests with Node.js and TypeScript to validate DynamoDB interactions, including CRUD operations, improving code confidence and deployment quality.
* Focused on automated testing by creating a comprehensive test suite, significantly enhancing code confidence and ensuring high-quality deployments with every release.
* Improved development workflows using GitLab CI/CD, leading to faster and more reliable releases, reducing the time taken to bring new features to market.
* Actively participated in code reviews and knowledge-sharing sessions, mentoring junior developers and fostering a culture of continuous improvement within the team.

Tech stack: React.js, Node.js, TypeScript, AWS Lambda, DynamoDB, Cypress, Jest, GitLab, CSS

SENIOR FRONT END ENGINEER, ORIGIN ENERGY - MAY 2017 - APRIL 2022

5 Years

Played a pivotal role in Origin Energy's digital transformation, contributing to various teams and projects over five years. Consistently delivered high-quality front-end solutions, driving technical innovation and enhancing user experiences across multiple platforms.

**Sales Product Team (2 years):**

* Led front-end development for the Retail Sales Product Team, delivering features that enhanced the customer experience for Origin’s retail sales platform.
* Implemented personalization strategies using Adobe Target, enabling tailored customer experiences that increased engagement and conversion rates within the retail sales platform.
* Integrated agile methodologies and continuous integration practices to streamline development workflows, resulting in improved team efficiency and product quality.
* Collaborated closely with backend engineers, designers, and product owners to ensure seamless integration of new features and maintain a high standard of code quality.
* Optimized A/B testing and personalization campaigns with Adobe Target, providing data-driven insights that informed product and marketing strategies, ultimately enhancing the user journey and driving sales.

**Platform Team (2 years):**

* Spearheaded the development of a **reusable web component library and design system**, ensuring consistent implementation of the company’s style guide across multiple applications and microsites. This involved architecting scalable, maintainable solutions for use across teams.
* Collaborated closely with **product managers, designers, and front-end developers** to understand functional and presentation requirements, aligning the design system with business needs and user expectations.
* Designed the architecture to enable **scalability and maintainability**, allowing seamless integration across multiple teams and projects.
* Implemented **styled-components** and **Material-UI (MUI)** to create a flexible and maintainable component library, reducing design inconsistencies and significantly improving development speed.
* Suggested and implemented **lazy loading** and **code splitting** to enhance application performance and reduce load times.
* Optimized core app performance by leveraging **asset optimization** (images, fonts, CSS) and advanced rendering techniques like **server-side rendering (SSR)** and **static site generation (SSG)**, ensuring efficiency across microsites.
* Developed a **CLI toolbox** to enhance developer tooling, streamlining the creation and maintenance of microsites, which improved developer productivity and reduced onboarding times for new team members.

**LPG Gas Team (1 year):**

* **Led the transformation** of the LPG customer gas ordering journey, improving user experience and efficiency through a modernized front-end solution.
* **Integrated GraphQL** into the tech stack, optimizing data handling and performance, which resulted in faster page load times and a smoother customer experience.
* **Collaborated with cross-functional teams** to ensure the project aligned with business goals and technical requirements, delivering a high-quality product that met customer needs.

**Tech stack:** React.js, TypeScript, MUI, Styled Components, AWS Lambda, GraphQL, Jest, Node.js

SENIOR FRONT END ENGINEER, TELSTRA DIGITAL — MAY 2016 - APRIL 2017

1 year

Contributed to product development teams with a focus on front-end engineering using the AEM platform. Played a key role in delivering responsive, mobile-first experiences, leveraging modern JavaScript frameworks and build tools to enhance performance and scalability.

* Worked extensively with **AngularJS v1.x** and **ReactJS**, integrating front-end solutions with **Node.js** backends.
* Applied responsive design principles to ensure seamless user experiences across devices.
* **Tech stack:** JavaScript, Node.js, AngularJS, React.js, Redux, Webpack, CSS, Less, AEM

SENIOR FRONT END ENGINEER, NIMBUS — JAN 2015 - MAY 2016

1.5 yearS

*Javascript, NodeJS, AngularJS, ReactJS, Redux, Wepack*

SENIOR FRONT END ENGINEER, BRAVO — JUL 2014 - NOV 2014

1.5 yearS

Contributed to the development of a Cordova/PhoneGap mobile application for **ManageBGL**, a critical tool designed to assist individuals managing diabetes. Worked in a dynamic startup environment, applying cutting-edge technologies to create user-friendly mobile solutions.

* Developed mobile app functionality using **JavaScript**, **Node.js**, **AngularJS**, and **React.js**.
* Leveraged **Cordova/PhoneGap** for cross-platform mobile app deployment, ensuring a seamless user experience across devices.
* Implemented **Redux** for state management and optimized development workflows using **Webpack**.
* Focused on **responsive design** to enhance usability for all screen sizes and improve accessibility for the diabetes community.

**Tech stack:** JavaScript, Node.js, AngularJS, React.js, Redux, Webpack, Responsive CSS, Cordova

# Skills

* **Languages & Frameworks:** JavaScript (ES6+), TypeScript (5.x), Node.js (18.x), React.js (18.x), React Native, AngularJS (1.x), HTML, CSS3, Emotion, Styled Components
* **State Management:** Redux, React Context, Hooks, Jotai
* **API Technologies:** AJAX, REST API, GraphQL
* **Build Tools & Libraries:** Vite, Webpack, Babel, Lodash
* **Cloud & Databases:** AWS Lambda, DynamoDB, PostgreSQL, MySQL
* **Version Control & CI/CD:** Jenkins, GitLab, GitHub, GIT
* **Testing & QA:** Jest, React Testing Library, Cypress, Playwright
* **Analytics:** Adobe Target, New Relic, Sentry, Google
* **Visualization:** D3 (SVG Charting)
* **Command Line & Tools:** CLI, Bash, ZSH, Fish
* **Design Patterns:** OO Design Patterns (Publish/Subscribe, Singleton, Factory)