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## Nathan Collins - Senior Full Stack Developer

- 15+ years experience as a software engineer in various industries.
- Full stack skill-set with a concentration on front-end engineering in the last 5 years.
- Become more active in the open source environment again.

## Skills

- Architectural Pattern - Model View Controller, Server side rendering, Restful API design patterns, Service layer.
- Scalable Architecture - Stateless design, Load balancing, Map Reduce.
- Methodology - Agile, Scrum, Cross-platform development.
- Code review - Software quality assurance, maintainability.
- Repositories - github, gitlab, bitbucket.
- Code editors - vs code, intellij, php storm, web storm. (many others but a bit out of touch)

## Tools

- Framework/Libraries - ES6, ES7, Polymer, LitElement, React, Node.js, Express, PHP, Laravel, Code Igniter. Ruby, JQuery, Electron, Docker.
- CSS Framework/Libraries - Bootstrap, CSS Grid, Flexbox.
- Environment - Firebase, Google cloud services.
- Databases - Mysql, Postgres, Firestore, Real time database, Google cloud, MongoDB, Couchbase, AWS.
- Automation software - Webpack, Gulp, Jenkins.
- Testing Suite - PHPUnit, Codeception, Mocha, Chai, Sinon, Selenium.

## Projects

### Aroma, Noosa, Queensland

Technical Lead *August 2018 - August 2019*

- Asset management system initially designed for vending machines, with the design to make it available for all unattended assets.

- Progressive web application. (Polymer, Firebase, Firestore, Mysql migration)
- Extremely complex application to allow for a worldwide of scenarios.
- Startup application designed to scale but to also develop quickly.
- Event driven system with 7 different log environemnt. (Firestore moved to Big query)

## **MyCtars, Eyeonit, Maroochydore Queensland**

Frontend Devleoper *November 2017 - December 2017*

- Health NDIS startup app designed to help a person manage their NDIS account for ctars.
- Desktop and mobile application. (React, API integration, PWA, Accessibility integration, Flexbox)
- Greenfields app that integrated with existing client database through an api. (.net & NodeJS)

## **Audit Portal, Eyeonit, Maroochdore Queensland**

Frontend Developer (Software engineer) *January 2017 - August 2018*

- Audit management portal designed to help telstra maintain audit procedures.
- Created authentication using OAuth2. (Polymer, .net)
- Config file to generate all audit procedures.
- Easily customisable.
- Connection to API (.net)

## **Mobile & Desktop app personalised dashboard prototype, Eyeonit, Maroochydore**

Software engineer *November 2017 - December 2017*

- A mobile app designed to showcase our AgentQ product in a mobile phone or a desktop environment, the app was personalised for each user when they received a call through the TIPT service.
- Develop a desktop environment that can be used in Windows, Linux and Apple. (Electron, PWA, Polymer, CSS, API, Node, ES6)
- Develop a mobile environment that can be used on many devices. (Cordova, PWA, Polymer, CSS, API)
- Live interactive charts so a managers could view changes on a call quickly. (Google charts)

## **Profiling application - University of Southern Queensland (Contracted position)**

Frontend developer *December 2016*

- Create a mobile application for profiling primary students.
- Animated screening project that allowed a user to select multiple options. (Nodejs, Angular, MongoDB, CSS)
- Multimedia implementation to guide students through the process.
- Unit and UI tests.

## **Italic Creative - NDIS application (Contracted position)**

Frontend Developer & Testing implementation Software engineer *November 2016 (1 month)*

- Implement tests to add confidence in the application. (Chai, mocha, sinai)
- Integrate Continuous integration the repository. (pipelines, github)
- Fix up existing bugs in the system and correct styling. (Polymer, )

## **Square Cloud - NDIS API implementation (Contracted position)**

Software engineer *October 2016 (1 month)*

- Implement an API for the upcoming client. (PHP, Laravel, Swagger)

## **Yesheis mobile and desktop applications**

Full stack Developer *August 2010 - July 2016*

- Version 1 of the website. (Drupal, mysql)
- Version 2 of the website. (Laravel, API driven)
- Statistics storage, retrieval and synchronisation. (Mysql, Couchbase)
- Social integration and authentication. (Disqus, )
- Internationalization - We supplied a service for 13 different countries. (Drupal, Laravel, JQuery, SCSS)
- Scaling for 80,000 users a second. (Varnish, Caching, Load Balancing, Minification)
- Continuous integration. (Team city, Ansible)
- Local environments to match live server environments. (Ansible)
- Content aggregation for many different countries.

- Centralised translation service so any person can translate. (Service since deprecated)
- Video aggregation through many different services. (you tube, vimeo, youku, etc....)

### **Customised statistic service**

- Version 1 (Vanilla, PHP, Mysql, Load Balancing)
- Version 2 (Vanilla PHP, Couchbase, Replication)
- Statistics storage, retrieval, synchronisation & replication

### **Yesheis.com API**

- The api to connect to mobile and web application. (Laravel, Mysql)
- 3 versions of the api for multiple services.
- Central Authentication.
- Multilingual & Internationalisation.

### **Show2.me website - Branding website for yesheis**

- Version 1 of the website. (Laravel, Connecting to yesheis API, jquery, Bootstrap)
- Content video aggregation.
- Social integration. (Twitter, facebook, baidu, weibo)