

crossfields.tech@gmail.com | +61410009778 | linkedIn | github |  
github2 | gitlab

## 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.
  - 10+ years using linux operating systems.
  - Unix commands line experience
  - UTS Lucy Graduation mentor program.
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## Skills

- Architectural Pattern - Model View Controller, Restful API design patterns, Service layer, Uni data flow.
  - Scalable Architecture - Stateless design, Load balancing, Map Reduce, Domain Driven Architecture, BFF microservice data design, Microservice design.
  - Methodology - Advanced Agile, Scrum, Cross-platform development, Scrum master.
  - Code review - Software quality assurance, Maintainability.
  - Repositories - Github, Gitlab, Bitbucket, Team Foundation.
  - Code editors - Vs code, IntelliJ, Php Storm, Web Storm. (many others but a bit out of touch)
  - Standards - Coding standards and testing implementation (UI, unit and integration)
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## Tools

- Framework/Libraries - ES6, ES7, ES8, Polymer, LitElement, Dart, React, Node.js, Express, JAVA, 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, MSSQL, Kafka.
- Automation software - Webpack, Gulp, Jenkins.
- Testing Suite - PHPUnit, Codeception, Mocha, Chai, Sinon, Selenium.

## Experience (Tools)

- Javascript - 10 years
  - Polymer - 5 years (version 0.5, 1.0, 2.0 & 3.0)
  - Angular - 1.5 years (versions 1 & 2)
  - Lit - 3 years
  - NodeJS - 2.5 years (ES5, ES6, ES7, ES8) including Electron & Cordova
  - React - 2 months
  - JQuery - 6 years
  - PHP - 12 years (version 3, 4, 5 & 7)
  - Dart - 12 months
  - Java - 1 year
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## Experience

### ING

Senior Software Engineer *October 2019 - Present*

### Unattended Technologies

### Aroma

Technical Lead *August 2018 - August 2019*

### Eyeonit, Maroochydore Queensland

Frontend Developer *January 2017 - August 2018*

### University of Southern Queensland

Frontend developer (Short term contract) *December 2016*

### Square Cloud - NDIS API implementation

Software engineer (Short term contract) *October 2016*

### CV - Yesheis

Full stack Developer *August 2010 - July 2016*

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## Projects

### ING, Apply registration form, Remote work

Senior Software Engineer *July 2021 - Present*

- High priority team always under pressure
- Strict testing process
- Complex form structure with multiple logic variations
- Connection to global systems
- Working with remote team
- Agile processes in a large team

### ING, Transaction alerting system

Senior Software Engineer *February 2021 - April 2021*

- Working directly with regulators
- Reverse engineer very old legacy data systems
- Reverse engineer data structure
- Minimal documentation for direction
- Complex sql queries for investigation
- Backfill data and reporting

### ING, Document repository system, Remote work

Senior Software Engineer *January 2021 - July 2021*

- Global document repository system
- Kafka data streams
- Scrum master role

### ING, Encryption Management System, Sydney, NSW

Senior Software Engineer *\_November 2020 - January 2021*

- Creation of a platform based form system to speed up development within a large company
- Webpack
- npm collaborative repositories
- Storybook demos
- Agile environment
- Platform based software using the latest technology (LitElement)
- High level of testing tools
- Peer reviews
- Staff training for LitElement
- First in the country for the business to implement native javascript.
- Implement standard and testing standards, shared libraries and coding standards.

## **ING, Frontend platform**

Senior Software Engineer *October 2019 - Present*

- Delivery of forms quickly for internal projects
- Conventional commit process
- npm version controlling
- Continuous integration and deployment process
- Git branching and tag management
- Reusable component design
- Repository inter-changeable design
- High level documentation
- Continued support

## **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.
- Agile environment team lead with a mentor to guide and help through agile processes.
- Progressive web application. (NodeJS, 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 environment. (Firestore moved to Big query)
- Coding standards, documentation and testing implementation (UI, unit and integration)
- Code review procedure
- Staff training
- Redux
- Socket driven database

## **Eyeonit, Maroochydore Queensland**

*January 2017 - August 2018*

- Coding standards, documentation and testing implementation (UI, unit and integration)
- Code review procedure
- Staff training
- Hiring a frontend team
- Agile environment

## **Eyeonit, MyCtars**

Frontend Developer *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)

## **Eyeonit - Mobile & Desktop app personalised dashboard prototype**

Software engineer *October 2017 - November 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)

## **Eyeonit - Audit Portal**

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)
- Redux state system

## **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)
- Restful service api design

## **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.
- Video aggregation through many different services. (YouTube, 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)