

Resume

Hudson Cassidy

Email hudoc96@hotmail.com Phone 0466651465

Github <https://github.com/CrimsonNynja>

WORK EXPERIENCE

- REA Group **Developer** **2020 - Current**
Joined as part of the Smartline team within REA, working in the home loan space. This project is written in React, Node and Java, and utilizes micro-services and various facets of AWS.
- Cognativ **Developer** **2020**
Worked as a Developer for Cognativ who do contract work primarily for mobile applications. My work here primarily consisted of node.js in the backend, and react or react native in the front end depending on the project. While here, I worked on:
- A podcast app, written in Django and React Native. This app was inherited, so a lot of effort was placed into helping code maintainability. As such I made the initiative to start using pydocs, as well as splitting up massive files into appropriate modules, along with introducing unit tests.
 - A social media app's backend, written with Node.js. While working in this, I rewrote the backend to be fully tested, with 100% code coverage, and to utilize better code practices, like environment variables for its secret keys, and separating its graphql resolvers from the its database functions.
 - The same app's admin website, written in React. I started this one from scratch, so have been in charge of almost all aspects of this, including project management.
- Plezzel **Developer** **2018 - 2019**
Joined a small start-up in the Real Estate / Digital Marketing space in Geelong as the 3rd developer. While there I took the following initiatives:
- Rewrote the email template engine, cutting development time from 1 week to a day per template. This system needed to allow each template to be styled and branded differently, as well as provide some rudimentary logic. This included separating out the data from the visuals, and providing a layer that ensures that email compatible HTML / CSS is produced.
 - Learned and used GraphQL and Laravel to rebuild the mobile app's backend from scratch.
 - Helped the team rewrite old code into new maintainable modules, including starting to write unit tests, and incorporate proper git processes (code reviews, better branch management) and start using Jira to manage sprints.

EDUCATION

- RMIT **Bachelor of Computer Science (RMIT University)** **2015-2017**
Completed my Bachelor of Computer Science at RMIT Melbourne. I took my majors in Cloud Computing and Artificial Intelligence

PERSONAL PROJECTS

- Node
Graphql
Scaffolder **<https://github.com/CrimsonNynja/generator-node-graphql>**
Created a code scaffolder that generates a fresh node.js / graphql project that tries to follow best practices. The generated code comes complete with unit tests, JWT auth, as well as minimal code to create / login to a user using the auth. It tries to be unbiased to semantic decisions where possible. This is also available as an NPM package.
- PHP Tree
Library **<https://github.com/CrimsonNynja/PHP-Trees>**
Library for PHP that adds tree structures (BST, rope, heap). The trees are designed to seamlessly work within the language, utilizing the latest PHP features. Full unit tests are also provided, written in PHP Unit, and built with PSR in mind. The latest release is also available as a composer package. I built this as PHP does not have any tree structures in its core, and any libraries for them are very sparse, to non existent.

CURRENT AREAS OF INTEREST

GraphQL
Data Structures
Test Frameworks
Micro-services

EXPERIENCE

Programming Languages

Javascript
PHP
C++
HTML / CSS
Java)
Python
SQL

Tools / Frameworks

React
Node
Git
Jira
SFML
GraphQL
React Native
AWS

JS packages

express
apollo
urql
Jest
lodash
react
react-router
styled-components
styled-system
react-hook-form
typescript
axios
mirage.js