

Resume

Hudson Cassidy

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

WORK EXPERIENCE

Cognativ

Developer

2020

Worked as a Developer for Cognativ who do contract work, primarily for mobile applications. My work here primarily consists of node.js in the backend, and react or react native in the front end depending on the project. While here, I have worked on:

- A podcast app, the backend of which written in Django, and the front end in 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. I also stressed that more effort was needed in code readability, to stop the many problems and styles currently in the code base from continuing.
- A social media app's backend, written with a Node.js backend. 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, which gets around 60 downloads a week

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 trees structures in its core, and any libraries for them are very sparse, to non existent.

REFERENCES

Max Bush 04 0418 0650

Jahryn Galbraith 04 0905 4508

CURRENT AREAS OF INTEREST

GraphQL
Data Structures
Test Frameworks
Mock Servers

EXPERIENCE

Programming Languages

Javascript
PHP
C++
HTML / CSS
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