Zachary Zhou Zhiheng

Software Developer avengyy@gmail.com +65 9235 2240

Aspiring Web Developer based in Singapore. Detail oriented, quick in learning and constantly curious for improvements.

Technical Skills

Frontend:

React, React Native, Sass, jQuery, Next.js, Bootstrap, D3.js, Webpack, GSAP, anime.js

Backend:

Node.js, Express, GraphQL, Prisma, PHP

Programming Languages:

Javascript/Typescript, PHP, Java, Swift, SQL

Operating Systems:

macOS, Windows, Ubuntu

Database:

MySQL, PostgreSQL, MongoDB

Cloud:

AWS EC2, S3, Firebase, Netlify

Tools:

Git, SVN, JetBrains IDE, XCode, Android Studio, Sketch, Bash

Others:

Object Oriented Programming, Functional Programming, Basic UI Design, Basic Systems Design

Links



https://github.com/avengyy/



https://codepen.io/Avengyy/



https://linkedin.com/in/avengyy

Experience

Sept 19 - Current

Cartrack

Frontend Web Developer

- Improved performance for telemetry data on charts visualization by >20%
- Implemented several customized features on top of Google Maps
- Integrated WiFi usage telemetry feature with new proprietary hardware
- Contribute and maintain a complex feature related to Live Streaming of video footage from vehicles
- Improved large data set marker performance rendering on OpenStreetMaps with Leaflet.js

Tech used: React, Redux, Redux Saga, Typescript, Lodash, styled-components, Recharts, Webpack 4, Babel 7, anime.js, Leaflet.js, Google API, PHP 7

Jun 17 - Aug 19

Snappp

Full Stack Web Developer

- Translate UI/UX Design into functional mobile application, with Ionic framework
- Led the planning, re-architect and the re-write of backend from scratch, reducing average API query time significantly from ~2 seconds down to >50ms
- Developed a content management and analytics dashboard using React for view layer and Redux state management
- Redux Thunk for asynchronous requests handling
- Visualisation of data using D3.js
- Configuration and deployment on AWS (some DevOps)
- Complete re-write of mobile application using React Native

Tech used: React, Redux, Redux Thunk, CSS Modules, Typescript, ES6, Node/Express, Lodash, Sequelize, D3.js, Webpack 4, Babel 6, React Native

Projects

Personal Project

Sick Fits

- Development of a simple e-commerce site with modern web technologies
- GraphQL for database interfacing
- Next.js for server side rendered React UI and Apollo client for GraphQL request handling as well as state management

Tech used: Next.js, GraphQL, Prisma, Apollo, styled-components, ES2015, Node, Jest

Academic Assignment

Android Social Media App (June 2018)

- Full design and development of Android application
- Implemented features such as post sharing with image upload and post deletion
- Worked with native android components such as Fragments, RecyclerView, Drawer Navigation

Tech used: Java, Android SDK, Google Firebase, Sketch

Academic Assignment

PHP Travel Booking Site (June 2018)

- Full design and development of the website
- Deployed to a cPanel web server using FTP client and SSH
- Implemented good practices like password hashing and salting with default PHP functions

Tech used: SCSS, PHP, Javascript, Gulp, MySQL, Apache