Timothy Choi

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Technical Skills

Languages JavaScript, Python, Java – C++, C, C#, Ruby, Scala, Ocaml and MIPS Assembly

Libraries & Framework React, Redux, Node.js, HTML, CSS, Bootstrap, jQuery, Config Parser, CSV.py, Matplotlib, NumPy, OS.py, Tkinter, Statistics.py – and Tomcat

Database, Platform & Software Git, MongoDB, Mongoose, PostgreSQL, SQL, pgAdmin4, Google/Youtube API, PyCharm – Unity, Android Studio, Eclipse | Windows, Linux – and Apple

Experience

Western Digital
Python: Config Parser, CSV, Matplotlib, NumPy, OS, Tkinter, Statistics

Hard Disk Slider Analysis Application - Presentation *July 2019 - Current*

- Developed a program reading large(~3GB) csv files that come from a sophisticated machine which analyzes hard disk sliders by reading its reading and writing resistances, and Noise - nV/sqrt(Hz).
- Used OOP to develop a relationship between wafers, sliders, cycles(noise) and cycle peaks.
- Implemented a functionality which will find peak details in each cycle, alleviating unwanted random noise/spikes, graphing all its information using Matplotlib.
- Created a function calculating deviation in resistances and flags 'bad measurement' if it's too high.
- Used Config Parser to save variables for different types of analysis and turned the program into an executable file for Western Digital at Philippines to constantly measure data daily.

Projects

Emily
React, Redux, Node.js, Google OAuth, Passport, MongoDB, Mongoose, Stripe, SendGrid

Mass Email Survey Service - Live Site | Github *December 2018 – June 2019*

- Full-stack website service that uses SendGrid to send out surveys to thousands of emails to collect survey answers.
- Incorporated React and Redux paradigms resulting in real-time updates and reusable components.
- Constructed user authentication with Google OAuth and Passport.js while managing user information using Mongoose in its MongoDB.
- Built a process to accept credit card payments to buy Emily store credits using Stripe.

Weather Maps
React, Redux, Node.js, OpenWeatherMap API, Google Maps API, Sparklines

Weather Forecast Comparison and Analysis Application - Github *September 2018*

- Built a website to compare multiple cities' weather, climate and pressure simultaneously using SparkLine graphs.
- Utilized action creators to fetch data from Google/OpenWeatherMap API with a middleware, redux-promise, to wait for ajax requests when retrieving information.

Soul Sales
pgAdmin4, SQL, HTML, CSS, JSP, JSTL, JavaScript, Tomcat, Eclipse

Online Shopping and Sales Analytics Application *April 2017 – June 2017*

- Incorporated concurrent transaction ensuring consistency during simultaneous manipulations of the same data.
- Optimized queries to quickly analyze large datasets through various dimensions: state, zip code, a-z order and top sales giving merchants data on their sales.

GarPr
Android Studio, GitHub, Java

Competitive Tournament Ranking Application – Google Play | Github *September 2014*

- Calculated ranking points through SSBM tournament results, like an Elo ranking system.
- Fetched tournament results and ranking data via JSON API to display it aesthetically using native android components.

Education

University of California San Diego – Revelle College June 2017
B.S. Computer Science La Jolla, CA

Object Oriented Programming, Design & Analysis of Algorithms, Advanced Data Structure, Online Database Analytics, Database System Principles, Theory of Computation, Computer Architecture, Design Digital System and Compiler Construction

Hobbies: Design, Visual Art, Ping Pong, Competitive Gaming: Super Smash Bros. Melee, Production and Event Coordinator.