

Dathan Wong

Los Angeles, CA | dathwo@outlook.com | 206-300-8998 | [Portfolio](#) | [GitHub](#) | [LinkedIn](#)

Programming Languages:

Java, Python, JavaScript, C#, Swift, Visual Basic, SQL, PowerShell, HTML, CSS

Technologies:

Django, React, SpringBoot, iOS, Mongoose, Express, NodeJS, Bootstrap, jQuery, D3js, AWS, VS Code, Visual Studio, SQL Server, Spring Tool Suite, Postman

Project Management Tools:

Jira, Azure Devops, Git, PowerBI

Certifications:

PSM 1 Certified (Professional Scrum Master)

Technical Projects

JIRA CLONE (JavaScript, React, MongoDB, Express, NodeJS, HTML, CSS, Bootstrap) | [GitHub](#)

- Clone of the project management software Jira using the MERN full stack
- Created dozens of customized React components to handle synchronized state changes across the app
- Added JSON Web Token authentication to prevent unauthorized access to projects and tasks
- Utilized sockets to generate real time updates of comments and tasks on the frontend
- Stored user, project, and task data in a NoSQL MongoDB database

MEET ME IN THE MIDDLE (JavaScript, React, Express, NodeJS, HTML, CSS, Bootstrap, Google APIs) | [GitHub](#)

- Web app to help find points of interest equidistant from two points
- Integrated the Google Places, Distance Matrix, Geocoding, and Maps JavaScript APIs
- Created my own APIs on a NodeJS server to query Google APIs and process the results
- Utilized the google-maps-react library to show an interactive map to display points of interest

SORTING ALGORITHMS VISUALIZER (Java, SpringBoot, HTML, JS, CSS, Bootstrap, D3js) | [GitHub](#)

- Webpage to help students visualize different sorting algorithms with easy to follow animations (Bubble, Insertion, Selection, Merge, Quick)
- Created animated bar charts using HTML, JavaScript, and D3js transitions to populate, shift, and colorize the bars to show the logic of the sorting algorithm
- Utilized a Bootstrap navbar with jQuery to allow users to set the speed of the sorting algorithm, choose a colorblind friendly UI, and select the sorting algorithm
- Created the webpage using Java and the SpringBoot framework to package and deploy the webpage on AWS

FOOD DROP OFF ORGANIZER (Django, Ajax, Python, HTML, JS, CSS, Bootstrap) | [GitHub](#)

- Webpage to allow restaurants to organize food drop off events during the COVID-19 lockdown to cut out food delivery fees, reach a wider customer base, and increase profits
- Created an SQLite backend to store event and order information using Django ORM and one to many relationships
- Utilized AJAX requests to provide a smooth user experience using asynchronous database calls
- Implemented BCrypt to hash and validate user login information while also using client-side and server-side input validations for enhanced system security
- Utilized Bootstrap to create a reactive webpage for an intuitive mobile device experience

RANDOM RESTAURANT FINDER (iOS, Swift, SwiftUI) | [Apple TestFlight](#)

- iOS app written with SwiftUI to help users find new restaurants based on search criteria, currently in beta on Apple TestFlight
- Utilized CLLocationManager to find nearby restaurants using user location data
- Added MapView with MKDirections to show restaurant location and directions from user's location
- Utilized the Alamofire library for networking operations

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- Integrated the Yelp API to leverage their database of restaurants and search results
- Created a custom animated view to create a Wheel of Fortune like wheel to display the randomly selected restaurant

SOLBOX: 2019 CHINA-US YOUNG MAKER COMPETITION (Arduino, C++) | [Hackster](#)

- Portable Bluetooth speaker that monitors ultraviolet radiation and temperature to let the user know when they need to apply more sunscreen or go inside, won the grand prize for the 2019 China-US Young Maker competition. Full project details in the link.
- Created the hardware using an Arduino Uno control board and the Arduino IDE using C++
- Integrated a hacked Bluetooth speaker and an SD card to play pre-recorded messages while also allowing the user to play their own music over Bluetooth

SUPER SIMPLE WORKOUT TRACKER (Xamarin.Forms, C#, SQL) | [Google Play Store](#)

- Weightlifting progress tracking app for Android and iOS written using C# and Xamarin.Forms for cross compatibility, currently on the Google Play Store
- Integrated a SQLite database using async tasks to read and write data
- Created a front end using tabbed views and list views with buttons to show and update progress

Work Experience

CODING DOJO (Teaching Assistant) Los Angeles, CA Aug 2020 – Present

- Helped students learn full stack development with MERN, SpringBoot, and Django

PACKAGE PROTECTION STARTUP (Co-Founder) Los Angeles, CA Jan 2019 – May 2020

- Designed the mobile application and hardware with the help of our software engineers and third-party designers
- Acted as the SCRUM product manager and ran SCRUM ceremonies with a team of 8 software engineers and 3 hardware engineers based in India to execute on our product vision
- Created and refined the product vision, roadmap, and backlog for an electronic self-locking bag and companion mobile app to protect deliveries from porch pirates

MICROSOFT (Program Manager) Redmond, WA Oct 2017 - Feb 2020

- Created new features and fixed bugs using SQL and Visual Basic for an internal device tracking tool
- Analyzed performance data for thousands of Windows devices to generate PowerBI and SQL reports to provide strategic investment recommendations and aid executive decision making
- Improved core device performance metrics like battery life, boot time, and app launch time up to 200% by investigating performance logging to identify bugs and working with internal and external product teams to resolve them

MICROSOFT (Support Escalation Engineer) Dallas, TX July 2015 – Oct 2017

- Resolved a wide variety of mission critical Exchange Online issues for hundreds of companies in high pressure situations as the highest level of escalation within Microsoft
- Wrote Powershell scripts to automate Exchange Online administrative tasks
- Documented issues and resolutions for difficult cases to teach peers how to investigate and resolve unique customer scenarios and decrease case closure times

BOEING DEFENSE (Electrical Engineer Intern) St. Louis, MO June 2014 – Aug 2014

- Worked on the radar for the fighter jet program
- Created a tool using C++ to process raw radar cross section data to be imported into a visualization tool

Education

Coding Dojo, Los Angeles, CA Apr - Aug 2020

- Triple black belt (highest level of achievement at the bootcamp)
- Python/Django, Java/SpringBoot, and JavaScript/MERN Full-Stack development

Villanova University, Villanova, PA 2011- 2015

- B.S. Electrical Engineering
- Minor in Computer Science