Junhong Pan (Paul)

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Education

University of California, San Diego

December 2021

Bachelor of Science, Computer Science

GPA: 3.30

Coursework: UNIX Tools and Command Line, Java, ARM assembly, Discrete Math, Linear Algebra, Data Structures and Algorithms

Skills

Languages: JavaScript, TypeScript, Python, HTML, CSS, Java, C++, C, Swift, Go **Frameworks and Tools:** React, Redux, Node.js, GraphQL, DynamoDB, MongoDB

Experience

Research IT Intern | Eli Lilly and Company

June 2019 - August 2019

- o Implemented React and D3.js Tetris-like game, educating scientists about how amino acid placement affects immune response.
- o Explored various scalable solutions suitable for back-end computation, such as AWS Lambda, EC2, ECS, and Red Hat Openshift.
- Updated the IT team during stand-up meetings on issues regarding the on-premise queue-based server, as well as the benefits and drawbacks of each of the new alternative services that was tried.
- Maintained documentation on Confluence for setting up new technologies that were explored.
- Launched AWS Lambda functions for alignment score computation and score keeping, written in Go and Node.js respectively.

Leadership

Quarterly Projects Mentor / Technical Committee Member | IEEE UC San Diego Branch

September 2019 - Present

- Mentoring 3 teams consisting of 4 people each on project planning and progress, along with technical skills.
- Plan and host technical workshops such as web development to enhance the skills of team members and IEEE staff.

Personal Projects

Containerize - Shareable Markdown Note-taker (containerize.thepaulpan.com)

August 2019 - Present

- Web-based React note-taking app allowing users to save notes in markdown, comes with a playground for markdown practice.
- Leveraged Redux framework to better manage states of the app.
- Handled asynchronous state changes, such as user authentication page, with Redux-Thunk module.
- Utilized AWS Amplify for front-end authentication, restricting access to AWS services with IAM Roles for security.
- Currently implementing Node.js GraphQL back-end with Apollo Server, using the Serverless CLI to handle AWS deployment.

Portfolio Website (thepaulpan.com)

July 2019

- Transitions implemented for every section of page with the help of React Transition Group.
- o First personal React project to be written in **TypeScript** for better maintainability and code linting in Visual Studio Code.
- Deployment of website is automated with Netlify.

Solutions to Climate Change – How you can get involved? (paulpan05.github.io/wcwp-climate)

February 2019 - March 2019

- Launched website with front-end developed in HTML, CSS, and JavaScript, with Bootstrap library for styling.
- Chart.js library used to plot effect of certain activities have on carbon emissions.

Team Projects

Honey4Groceries - iOS Grocery Suggestions App

November 2018 - Present

- Worked as part of a team of several people on a native Swift iOS application giving users suggestions on where to shop.
- Suggestions depend on location preferences and prices of items in the user's shopping cart for different stores.
- o Responsible for majority of coding for UI using PureLayout API instead of default AutoLayout for more abstraction in code.
- o Contributed primarily to the location services of the app, along with parts of the **Go** back-end.

Facebook Messenger Bot for ECE Undergraduate Student Council (ECE USC)

January 2019 - March 2019

- Part of a team of 8 people working on messenger automation for the ECE USC page, written using Python Flask.
- Specifically contributed to the scheduled event reminders and RSVP functionality, performed with CRON jobs that message
 users with ID's stored in a MongoDB database.

IEEE Quarterly Projects (Spring 2019)

April 2019 - June 2019

Worked in a team of three on automated door that opens with the scanning of RFID and closes with distance detection.

Easy Tour – LA Hacks 2019 March 2019

o Developed with one other person on a **Node.js** web app giving users travel itinerary based on current emotions.