

Junhong Pan (Paul)

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Education

University of California, San Diego

December 2021

Bachelor of Science, Computer Science

GPA: 3.26

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

Skills

Languages: Python, Java, JavaScript, TypeScript, Python, HTML, CSS, C++, C, Swift, Go

Frameworks and Tools: React, Redux, Spring MVC, Flask, PostgreSQL, Node.js, MongoDB

Experience

Eli Lilly and Company | Research IT Intern

June 2019 – August 2019

JavaScript, React.js, D3.js, Golang, Node.js, AWS Lambda, Confluence, TypeScript

- Lead project for game simulation that calculates immune response from amino acid placement.
- Enhanced 1000-fold for bioinformatics algorithm Needleman-Wunsch through migrating from Node.js to Golang.
- Reduced server maintenance cost through advising the transition of on-premise servers to scalable AWS offerings.
- Devised tech documentation for various server environment setups to improve DevOps implementation in the company.

ACM UC San Diego Branch | Front-end Developer

November 2019 – Present

JavaScript, React.js, LESS, Figma, CircleCI, TypeScript

- Primary developer for ACM's current landing page conforming to Figma files from the Design Team.
- Fixed responsiveness bugs for SPACES startup fair website hosted by ACM.
- Currently developing with 3 other board members on ACM's main website.

Leadership

IEEE UC San Diego Branch | Tech Committee Member / Projects Mentor

September 2019 – Present

- Planning and hosting various technical workshop with officers on topics such as React, Flask API requests, etc.
- Mentored 3 teams with 4 people each on project planning and technical skills such as front-end web development.

Personal Projects

PaulURL.com (Front-end: paulurl.com/front-end, Back-end: paulurl.com/back-end, Site: paulurl.com) January 2020 – February 2020

PostgreSQL, Java, TravisCI, Spring MVC, JavaScript, React.js, Heroku, Netlify, TypeScript

- Produced personal URL shortener to keep track of important links that can be referred back later.
- Enhanced back-end security and integrity by choosing to implement using statically typed Java Spring framework.

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

August 2019 – January 2020

JavaScript, React.js, Redux, AWS Cognito, TypeScript

- Launched note-taking web app that serves both as a note-taker and events or meetings scheduler via plugins.
- Organized authentication and real-time markdown rendering states using Redux framework in React.

Team Projects

Honey4Groceries – iOS Grocery Suggestions App (github.com/Honey4Groceries/Honey4Groceries)

November 2018 – Present

Swift, UIKit, PureLayout, PromiseKit, Golang

- Application gives users suggestions on where to shop based on grocery prices in shopping cart.
- Pioneered the location services of the app, along with parts of the Golang back-end in a team of 9 people.

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

January 2019 – March 2019

Python, Flask, MongoDB, python-crontab

- Back-end developer in a team of 8 people working on messenger automation for the ECE USC page.
- Spearheaded the scheduled event reminders and RSVP functionality.

Easy Tour – LA Hacks 2019 (devpost.com/software/easy-tour)

March 2019

JavaScript, Node.js, EJS, MongoDB

- Developed with one other person on a web app giving users travel itinerary based on current emotions.
- Leveraged Google's NLP API to obtain emotions of images specific to a location, which are obtained using Flickr API.

Certification Programs

CodePath Professional iOS Bootcamp

January 2020 – Present

- Working on weekly iOS project sprints that aim to teach advanced iOS development in 13 weeks