

RICK (XI) HUANG

Year 4, Computer Science Student, Expected Graduation May 2022, GPA 93% (A+)

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Technical Skills

Programming: Java, Python, JavaScript, Typescript, C++

Databases: SQL, MongoDB

Web: HTML, CSS, NodeJS, React, Redux, Express

Testing: JUnit, Mocha/Chai

Technical Projects

Smart Cook (Website) *React, Redux, JavaScript, Express, NodeJS, MongoDB*

May. 2020 – Aug. 2020

- Built an online platform for cooking lovers with features of recipe recommendation, journals and pictures sharing
- Researched and implemented a recipe recommendation system utilizing third party API and machine learning models
- Incorporated a rich text editor for the webapp to empower users with advanced content creation experience
- Designed the UI with Materials UI. making adaptations based on user feedback

Smart Image (Website) *React, JavaScript, Express, NodeJS, PostgreSQL*

Feb. 2020 – Apr. 2020

- Built a responsive full-stack image portfolio web app with features of object detection and labeling
- Set up image service and analysis with Cloudinary and Google Vision API
- Created components, and managed the states of registration, login, image uploading and displaying pages
- Implemented user authorization and profile management system with the use of database

Sentiment Analyzer, 2020 nwHacks *Python, Flask, HTML*

Jan. 2020

- Built a search website for sentiment analysis using Google Cloud API
- Utilized natural language machine learning model to analyze data feeds from both social media and news websites
- Designed UI and implemented visualization of output results

Insight UBC, Academic *TypeScript, JavaScript, Node.js, Mocha/Chai*

Jan. 2020 - Apr.2020

- Developed a query engine on all UBC courses information by using asynchronous programming and a RESTful design
- Implemented parsing of complex HTML files and JSON objects
- Designed a greedy course scheduling algorithm for maximizing total enrollments and minimizing travel distances

Work Experience

Research / Quality Engineer, Micropoint Bioscience, Inc., Santa Clara, CA

Oct. 2016 – Aug. 2019

- Worked closely with a group of software engineers for optimization of algorithms used in medical diagnostic products, reducing the error rate from 5% to 1%
- Analyzed thousands of clinical data and computed optimal calibration parameters for the product test system
- Built a data parser with Python for batch processing of raw test files from test devices, which was used by all the scientist and engineers in the company
- Completed investigations and experiments to identify potential product improvements and key performance issues
- Performed product verification and validation, and collaborated with the R&D teams to develop product specifications and test protocols
- Provided technical support and expertise to marketing and customers around the globe

Education

Bachelor of Computer Science, University of British Columbia

Sep. 2019 – Present

M.Sc. Chemical Engineering, University of Alberta

B.Sc. Chemistry, Sun Yat-sen University, China