David Yi

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Experience

RiceApps — Full Stack Engineer   Sept 2019 - Present
- Designing and developing a MERN & GraphQL (via Apollo-Client) Stack web-based application to create an environment for Rice University students to discuss about anything and Rice version of Ycombinator's Hacker News
- Working in an industry-standard agile development cycle as a team of eight (weekly scrum and sprint)

Rice University — Web App Developer   May 2019 - Aug 2019
- Developed a file system interface Flask web app for image archiving on a CentOS 7 VM on Rice University research computing infrastructure as a team of two
- Created the entirety of the back end and connected the front end to the back end independently, currently being used by few researchers and handles ~40k images with ~38k OCR text transcriptions
- Designed and implemented the SQL database and created the scripts for it using raw SQL texts and SQLAlchemy alone
- Set up and maintained LAMP and International Image Interoperability Framework servers alone

Leadership/Activities

East West Tea — Shift Supervisor   Sept 2018 - Present
- Managed employees during shift to maintain productivity and consistent positive customer experience
- Ensured order and cleanliness of kitchens during operation hours

Baker Residential College — Webmaster   May 2019 - Present
- Maintain Baker College's Website and make additions as requested by Baker College's Student-Run Government using Squarespace

Rice Taiwanese Association — College Coordinator   Jan 2019 - Present
- Remain point of contact between RTA and Baker College

New Life Fellowship — Rides Coordinate   Aug 2019 - Present
- Organized rides for over 50 people to go to church and back to campus every week

Projects

Full-Stack Social Media App— MongoDB, Express, React, Node.JS
- Created a full-stack social media site using bootstrap and the MERN stack from scratch
- Tested front end and back end rigorously
- The back end is hosted on Heroku (*https://yo-backend-final.herokuapp.com*) and the front end is hosted on Surge (*http://yo-app-frontend.surge.sh/*)

Dodgeball — JavaScript
- Independently programmed Dodgeball for BrightLogic's Active Floor (interactive, touch-sensitive floor), and is currently the most popular game out of 18 for the Active Floor in Bergen County Academies
- Designed two game modes: one to dodges balls and another to dodge "lasers"
- Recreated Dodgeball, or now known as Asteroid Belt, for use in browser alone

Bergen County Veterans Service — HTML, CSS, PHP, SQL, Laravel
- Led a team of three other students to redesign the Bergen County Veterans Service website in order to boost efficiency, productivity, and accessibility
- Produced involving the database and the back end that dynamically brings data to display on a Google Chart API
- Used by the Bergen County Director of the Veterans Affair

Education

Rice University — Houston, TX
Bachelor of Science in Computer Science
GPA: 3.61/4.00
Expected May 2022

Bergen County Academies — Hackensack, NJ
Academy of Technology and Computer Science
GPA: 3.83/4.00
Jun 2018

Relevant Coursework
Algorithmic Thinking (Data Structures/ Algorithms), Functional Programming, Statistics for Data Science, Web Development, Program Design, Computer Systems, Parallel Programming, Linear Algebra, Fundamental to Computer Engineering

Honors

Gold President's Volunteer Service Award — Corporation for National & Community Service

Best Twilio Hack — hackBCAIII

AMC 10 Honor Roll — Mathematical Association of America

Technical Skills

Web Development:
React, MongoDB, SQL, JavaScript, Git, GraphQL, Express, Flask, PHP, Laravel, HTML/CSS, Jinja2, Sass

Programming:
Java, Python, C, C++, Dr.Racket, R, Swift, Excel

Topics:
Data Structures, Algorithms, Processors/Logic Gates, Testing (E2E/Unit)