Simon He

Experience

CUNY Tech Prep - Bootcamp

Software Engineer, Full Stack   Jun 2019 - May 2020 | New York, NY

- Took a B2B project from ground up to production in a matter of 4 months
- Followed OWASP security principles to ensure no vulnerability in application
- Worked with TruWalks to build an upgraded version of their existing site
- Leveraged extreme programming principles, proactively adapting to client needs
- Designed UML diagrams to depict activity, use-case, sequence, class, and states

Nüapps

Software Lead Developer, Android   Feb 2014 - May 2014 | New York, NY

- Led a team of 4 to develop a fashion application in the Android marketplace
- Displayed clothing and accessories to over 11,000 Virtual Enterprise users
- Coordinated with design team, serving over 24 unique products

Projects

Amazon Clone, Full Stack Ecommerce Website   Firebase, React, Express, Stripe

https://clone-8bfdb.web.app   Sep 2020 - Present | New York, NY

- Redesigning Amazon's website with features they should consider implementing
- Use firebase for user authentication and persistence in navigating between web pages
- Pulled in Stripe API for payment processing and transaction logging for users
- Followed a serverless architecture for fast deployment and scalability

Easy Split, Calculations in seconds   React Native, Redux

https://github.com/simonhe1/AdvancedTipCalculator   May 2020 - Present | New York, NY

- Intuitively seamless price splitting mobile app for individual or group events
- Increase render speed by 3% with redux state management, lazy loading, and throttling

RecognizeMe, Music generation with Computer Vision   React, Python, Flask

https://github.com/simonhe1/RecognizeMe   Mar2020 - Present | New York, NY

- Create innovative algorithms to process images with openCV library and extract music notes as connected components
- Use Tone.js to asynchronously play music notes as piano keys based on duration and frequency

TruWalks, Dog Walking Scheduler   PostgreSQL, Express, React, Node, Sequelize, axios

       Sep 2019 - Jul 2020 | New York, NY

- Served in an agile development team with 2 other developers making a white label web-based app to schedule dog walkers with dog owners
- Decrease API cost dependencies by 24% by making components from scratch
- Redesign React logic with Hooks to increase readability and maintainability
- Reduced web traffic by 2% by having persistent timeout for idle users

Contact

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Education

Queens College

May 2020
B.S Computer Science

Coursework

Object Oriented Programming
Data Structures & Algorithms
SQL Databases
Software Engineering
Computer Vision
Data Analytics
Image Processing

Languages

Java, JavaScript, C++, HTML, CSS, Python, PHP, SQL, Swift

Web Development

Node, Express, React, jQuery, axios, Bootstrap, Sequelize, Material-UI, Passport, Redux, p5, Nodemon, Docker, bcrypt, Heroku, Git, Jest, jUnit, Postman, Phaser, Webpack

Mobile Development

React Native, Android Studio, Xcode

Databases & Services

MySQL, MongoDB, AWS, PostgreSQL, Firebase

Awards

CUNY Startups

1st place in health superlative
github.com/simonhe1/SoM
Android application selected amongst 426 participants to spread awareness of mental health and treatments