Sheng YangSan Francisco, CA

www.bruceisyoung.com linkedin.com/in/bruceisyoung github.com/bruceisyoung

Summary

Enthusiastic software engineer with extensive knowledge in test-driven development of web / mobile applications and 'can do' attitude looking for entry level opportunity in front-end / full-stack developer role

Technical Skills

Strong - React & Redux, React Native, Node, Git & Github, Unit/Integration/E2E testing, AWS, Docker, JavaScript / ES6, HTML & CSS

Experienced - Angular, Backbone, Exponent, RESTful / APIs, socket.io, MongoDB, MySQL, Heroku, LabView

Software Engineering Projects

MadSweepers, Software Engineer

real-time multiplayer game combining Contra and Minesweepers, utilizing React / Redux as Front-end framework, node / express as back-end framework and socket.io as communication protocol

- Developed React/Redux based client-side game states manager and middleware for handling states updates and concurrent multi user web-socket communications
- Designed the structure of the app for better control on user interaction
 - defining back-end as the game states hub, where the latest game states are calculated after the player's operations are sent to server
 - the front-end received game states updates through socket from server and rerender game views instead of generating new local states directly
- Used object-oriented design to optimize the back-end server, establishing structured classes for gameManager, board and players with comprehensive methods to manage game states
- Redistributed workload of game states calculation to client side to achieve lighter socket traffic and faster game response
- Created socket.io based modules to synchronize changes of game states resulted from real-time user interactions on multiple clients' terminals
- Deployed application services through Docker containers and leveraged AWS ECS clusters and EC2 load balancers to enhance performance
- Implemented unit testing and integration testing by mocha, chai, sinon, enzyme

Jamz, Software Engineer

An IOS app designed to help users to setup and accomplish goals and cultivate accountability

- Built modular and performant user interface with React Native and Exponent
- Utilized Node, Express and MongoDB to construct back-end to store and serve user data, including authentication information, personal goals and check-in history
- Constructed APIs on server side and enabled the communication between front-end and back-end through RESTful requests
- Automatically updated and deployed server, using heroku and CircleCI
- Increased unit and integration test coverage using Mocha, Chai

Meal.Next, Software Engineer

All-in-one IOS app to find recipes, build grocery list, check nutrition info and calories consumption

- Used NativeBase to polish the user interface for rendering native IOS app views
- Integrated local storage to persist user profile information and preferences between sessions
- Enabled seamless transitions between Front-end views with Exponent navigation bar
- Employed various React-Native components to implement interactive and visual user features, including drawer, swipeout, keyboardAvoidingView, search bar, loading spinner and chart

Professional Experience

International Technological University, Bio-Electrical Engineer

2012-2016

- Conducted research on wearable device technology, non-invasive glucose sensing and calories expenditure calculation
- Implemented auto-testing of photodiodes and data extraction by enabling the communication between parameter analyzer HP4145 and PC using LabView programming
- Utilized NI vision development module and LabView programming to measure the droplets moving speed by analyzing the experiment
- Published numerous papers on IEEE and SPIE conferences, including:
 - ★ "Algorithm to calculate human calorie expenditure based on a predicted heat strain model", Sheng Yang, Yen-Chun Yeh, John Ladasky and Dominik Schmidt, IEEE-EMBS BHI 2016, Las Vegas
 - ★ "Single chip AWG-based Raman spectroscopy for continuous glucose monitoring", Sheng Yang, Yen-Chun Yeh, John Ladasky, Avid Farhoodfar and Dominik Schmidt, SPIE BioS 2016, San Francisco

Education

Hack Reactor, Advanced Software Engineering Immersive Program Fudan University, M.S in MicroElectronics
Fudan University, B.S in MicroElectronics

2016 2008 - 2011

2004 - 2008

- Top 3 student in Masters program (3.80/4.0). Awarded with People's Scholarship six times
- Relevant courses: Computer Architecture, Principle of Microcontroller, Digital Logic