Rex Liu
Software Developer

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Education

University of California, Berkeley | B.A. Computer Science
AUG 2020 - MAY 2024 | *Berkeley, CA*

Semiahmoo Secondary | International Baccalaureate Diploma
SEPT 2018 - JUN 2020 | *Greater Vancouver, Canada*
International Baccalaureate Diploma Score: 40 / 45

Experience

Head Full Stack Web Developer | HKP Solutions
JUL 2020 - PRESENT | *Remote*
- Lead team of 5 developers and managers to develop hotel management web application
- Develop frontend with ReactJS, JavaScript XML (JSX), and CSS
- Integrate Django-based backend into frontend structure
- Host web application using Microsoft Azure
- Host weekly scrum meetings and address technical inquiries

Full Stack Web Developer Intern | Investocracy
JUN 2020 - PRESENT | *Remote*
- 1 of 3 web developers creating and managing all 3 Investocracy websites
- Develop frontend in ReactJS, SCSS, and JavaScript XML (JSX)
- Implement Redux, Express, MongoDB, Google Firebase Authentication, and AWS

Software Engineering Manager | RISE
JUN 2020 - PRESENT | *Remote*
- Lead team of 5 developers and designers in creating a job tracking platform
- Create dynamic web application with ReactJS, JavaScript XML (JSX), and CSS
- Implement Google Firebase Authentication and Hosting and MySQL Database

Head Android Software Developer | HKP Solutions
JUN 2020 - PRESENT | *Remote*
- Lead development of Android app to manage hotel staff in Android Studio with Java
- Manage 5 developers and host scrum meetings for updates and to distribute tasks
- Address technical development inquiries
- Integrate Django-based backend into Android application
- Lead QA testing by creating APKs, managing GitHub issues, and guiding testers

Quality Assurance Tester | Launch Tech LLC
JUN 2020 - PRESENT | *Remote*
- Apply manual testing methods such as unit and integrated tests to find and track bugs
- Note bugs, suggest improvements, and properly document GitHub issues

Projects

PCOV Church App | Java, XML, Google Firebase
Fall 2018 - Spring 2019 | *Greater Vancouver, Canada*
- Increased community engagement of the Philadelphia Church of Vancouver, a local church, by developing an Android phone application as a connection platform
- Implemented Firebase database for announcements, videos, images and notifications
- Published application in Google Play Store with 30+ downloads

Stock Trading Bot | Python, Artificial Intelligence, Google Cloud
Spring 2020 | *Greater Vancouver, Canada*
- Implemented Alpaca Trading API to import data and create buy/sell orders
- Designed AI software to predict the movement of stocks based on past data and current trends; creates buy/sell orders accordingly
- Utilized AI analyzing modules including Keras and Sklearn
- Uploaded program to Google Cloud Storage to run infinitely on Google Cloud Engine
- Developed with Numpy, Pandas, and threading

Senior House Connect | HTML, CSS, JavaScript, PHP, MySQL
Summer 2020 | *Greater Vancouver, Canada*
- Creating web application to match volunteers with seniors for one-on-one sessions with JavaScript, HTML, and CSS
- Designing user-interface for volunteers to input preferences and for managers to manage timetables and input preferences for seniors
- Implementing MySQL database with PHP to store preferences and timetables

Sorting Visualizer | JavaScript, ReactJS
Summer 2020 | *Greater Vancouver, Canada*
- Visualize merge, quick, heap, and bubble sort algorithms
- Developed user-interface to randomize and sort arrays with React library

Leadership Experience

Officer | Engineering Student Council
JUN 2020 - PRESENT | *Berkeley, CA*
- Facilitate connection and inclusion within Berkeley Engineering faculty by hosting events, funding clubs, and creating initiatives
- Find sponsors and form corporate connections

Co-Founder and President | Semi Programming Club
NOV 2018 - MAR 2020 | *Greater Vancouver, Canada*
- Led 15 high school students Java and Python with interactive challenges and projects
- Directed team of 5 executives in creating and teaching weekly lesson plans
- Coordinated meetings and events with sponsor staff and school principal
- Hosted local coding competition

Vice-President of IT and Finance | South Surrey Youth Effective Speaking
SEPT 2017 - APR 2020 | *Surrey, Canada*
- Developed and managed organization website to advertise accomplishments and goals
- Organized over $10,000 total and donated $4000 to a variety of local charities
- Photographed yearend events with over 50 students and parents for social media
- Managed logistics for debate classes for 32

Skills

Technical Skills
Proficient with
Python3 • Java • JavaScript • ReactJS • NodeJS • HTML • CSS • Sass • XML • PyGame • BrowserSync • GitHub (LFS) • Agile (Scrum) • Google Firebase • Google Cloud • MongoDB • Redux • Express • MySQL

Knowledgeable in
Android Development • Web Development • Algorithms Design & Analysis • Data Structures

Soft Skills
Exceptional
Leader • Collaborator • Innovator

Achievements

UBC Physics Olympics Champions - MAR 2019
University of British Columbia, Canada
- 1st / 600 Students– Provincial Physics Contest

Award of Excellence in Programming 11, Pre-Calculus 11, Chemistry 11 - JUN 2018
Semiahmoo Secondary, Canada
- 1st / 60 Students in each Class – 96%+ Final

Fun Facts

Hobbies
- Badminton - Semi Provincial Team (2018 - 2019)
- Piano - Level 8 Theory and Level 4 Practical
- Photography
- Rubik's Cube
- Origami

Interests
Artificial Intelligence • Automation • Aerospace Engineering • Cyber Security