Sam Zhengkang Liu

PROFILE

Detail-oriented, responsible and committed full-stack engineer at EY's new Technology Center in Vancouver. My product spirit is get-it-done, on-time while maintaining simplicity and high-quality. My current role at EY involves defining requirements, designing, implementing, building, testing and deploying web applications/services with front back end integrations using a variety of programming languages and technologies. Technology proficiency include:

- Programming languages: Java, JavaScript/Typescript, Python, C++/C#, C, HTML, CSS/SCSS, Apache Maven, Swift

- Web framework: React.js, Vue.js, Angular.js, ASP.NET Core, Spring Boot, Express, Django

- Database: SQL, Hive, MongoDB

- Tools: JetBrains IDE, Visual Studio Code/Visual Studio, Xcode, Android Studio, SQL Server Management Studio Express, Git, Docker, Jest, Mocha/Chai

- Methodologies: Object-Oriented Programming (OOP), Agile Software Development, Scrum, Pair-Programming, Test-driven Development

WORK EXPERIENCE

FULL STACK SOFTWARE ENGINEER, EY, VANCOUVER – 2019.11 - PRESENT

- Implemented and deployed EY Tax COVID19 Response Tracker web app with the global team in one week using ReactJS, ASP.NET Core and PowerBI, and passed UAT and MVP;

- Implemented and deployed JPA (Java Persistence API) for EY Rules Engine backend server with Spring Boot, Hibernate to achieve dual databases (MySQL, Hive) multi-tenancy interaction; Took charge in building components and fixing bugs for React frontend as well as integrations.

- Designed & developed EY Technology Centre - Vancouver internal landing page using ReactJS, ASP.NET Core (C#) and VueJS (TypeScript) for admin portal

- Responsible for documentation in projects, refactor of code structures and followed code reviews with Tech Lead/Seniors to improve coding standards/performance

- Work alongside with EYTC Engineers and EY Client Technology global teams in Agile settings to deliver products globally.

- Assisted in EY Campus Recruitment, prepared interview questions and conducted interviews for interns

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA – BA, 2014.9 - 2019.8

- Awards: UBC Go Global Research Award

- Relevant Coursework: Software Construction, Computer Systems, Basic Algorithms and Data Structures, Relational Databases, Intermediate Algorithm Design and Analysis, Computer Vision, Cognitive Systems, Psychology

SCHOOL OF ENGINEERING INBOUND EXCHANGE PROGRAM, HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, HONG KONG – 2017.1 - 2017.5

- Relevant Coursework: Marketing Management, Business Finance, Statistics, Android Development

RESEARCH EXPERIENCE

RESEARCH ASSISTANT, UBC MOTIVATED COGNITION LAB, VANCOUVER – 2019.5 - 2019.8

- Took part in the current project of assessing the simulation fidelity required to learn surgical-like instrumentation in virtual reality;

- Tasks are: set up VR equipment and gadgets, map/re-map tool layouts, update testing back-end servers, run experiments on participants, collect data and analysis.

RESEARCH ASSISTANT, NATIONAL TAIWAN UNIVERSITY DIGITAL CAMERA AND COMPUTER VISION LAB, TAIPEI – 2018.7 - 2018.8

- Assisted supervisor with ongoing projects and set up testing environments

- Conducted a research on PCB (Printed Circuit Board) Gold Wire Inspection using 3D X-ray image reconstruction technique

PERSONAL PROJECTS

TWITTER-LIKE POST PORTAL – 2020.4

- Built a Twitter-like Posts Portal using MEAN (MangoDB, Express, Angular, NodeJS) stack with basic authentications and authorizations;

- Deployed backend to AWS Elastic Beanstalk and frontend to AWS S3;

- http://sam-mean-app.s3-website.ca-central-1.amazonaws.com/

SOCCER LEAGUE – 2018.1 - 2018.4

- Responsible for front-end design using Vue.js and Bootstrap

- Designed and created relational database for 2017-2018 UEFA Champions League

- Deployed to Postgres Server and tested with preloaded dummy data and queries