GUANGLEI DAI

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Qualifications

Fullstack Software Engineer Rich experiences in interpreting ideas to software designs for scalable web and mobile frameworks.

Expertise in structural design Dedicated to object-oriented software design patterns and modern software development methodology.

Great trouble shooting skills Strong ability in analyzing code and debugging with dump and server logs.

Educations

Master of Engineering, McGill University Montreal, Canada *Sep. 2011 - Dec. 2013*
Major: Electrical and Computer Engineering
Awards: Graduate Excel Fellowship(Two times)

Bachelor of Science, Shanghai JiaoTong University Shanghai, China *Sep. 2007 - Jun. 2011*
Major: Electrical and Computer Engineering

Technical Tools

Programming: Java, Ruby on Rails, Objective C, Xcode, Android Studio, C/C++, SQL, ReactJS, React-Flux, Javascript, JQuery, AJAX, REST API, JSON, PHP, HTML, CSS, Amazon S3, Heroku, CodeShip, Git, Matlab, LaTeX

Operating Systems: OS X, Linux, Windows

Working Experiences

Fullstack Software Engineer—Fans Entertainment Inc.(Acquired), Montreal, Canada *Mar. 2014 - Present*

- Designed and implemented a well-known responsive and scalable venue management framework from Server BackEnd modeling, web FrontEnd management software to IOS framework and Android library.
- Created a real-time guest service platform within a mobile framework from scratches, serving national hockey league venues, Formula one games and commercial shows. Users' count range from 25,000 to 50,000 per event.
- Integrated customizable push notification service into a framework, sending messages to more than 100,000 mobile devices per event.
- Integrated major social medias and third-party's authentications, authorizations and content-fetching.
- Stepped in on 3 projects that were running behind schedule and shipped them on-time.
- Joined the start-up company when it had only five developers.

Software Engineer—Quebec Center For Biodiversity Science, Montreal, Canada *Jan. 2012 - Jan. 2014*

- Refactored database structure to follow object-oriented design.
- Created mechanisms to detect spamming information and block harmful data.

Research Assistant—McGill University, Montreal, Canada *Sep. 2011 - Dec. 2013*

- Proposed wireless relay networks with supervised learning detectors, which overcomes the limitation of conventional differential detection employed in multi-relay wireless networks over fast-fading environments.
- Performed Monte-Carolo simulations on the proposed schemes with **C** and Matlab.

Mobile Developer Intern—Zhongshu Health-Tech Limited, Shanghai, China *Jan. 2010 - May, 2011*

- Developed portable blogger in JavaME.

Publications

G. Dai and H. Leib, "Detect-and-Forward Multirelay Systems With Decision-Feedback Differential Coherent Receivers," in IEEE Transactions on Wireless Communications, vol. 15, no. 2, pp. 1267-1281, Feb. 2016. doi: 10.1109/TWC.2015.2487974

Languages

English & Chinese(fluent), French (Working Proficiency)