GUANGLEI DAI

Apt 902, 1411 Fort Street, Montreal H3H 2N7

TEL: (438) 877-6438   E-MAIL: guanglei.dai@mail.mcgill.ca

QUALIFICATIONS

- Rich experiences in interpreting ideas to software designs of scalable web and mobile frameworks.
- Dedicated to object-oriented software design patterns and modern software development methodology.
- Consistently delivers high quality softwares that meet the standards.

WORKING EXPERIENCES

Lead Software Engineer—Nuance Communiations, Montreal, Canada   *Mar.2016 - Present*

- Lead a team of software developers and quality assurance engineers to build applications for industry users.
- Directed team meetings to verify progress and plan code direction.
- Architecture and review the code base to follow an easily scalable structure.
- Assigned coding and test automations tasks to various team members.

Software Engineer—Nuance Communiations, Montreal, Canada   *Oct. 2015 - Feb.2016*

- Built a mobile voicemail to text SDK for telecommunication carriers with millions of users.
- Was responsible for quality of applications delivered for customer orders.

Fullstack Software Engineer—Fans Entertainment Inc.(Acquired), Montreal, Canada *Mar. 2014 - Sep.2015*

- Designed and implemented a well-known responsive and scalable venue management framework from Server BackEnd modelling, 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

PROFESSIONAL CERTIFICATIONS

Xamarin-certified Mobile developer *Mar. 2016*

EDUCATIONS

Master of Engineering, McGill University Montreal, Canada. GPA 3.85 *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: XCode, Objective C, Xamarin, Android Studio, Java, Ruby on Rails, C#, C/C++, SQL, ReactJS, React-Flux, Javascript, AJAX, REST API, JSON, HTML, CSS, AWS, Heroku, CodeShip, Git, Matlab, Monte Carlo simulations, LaTeX

Operating Systems: OS X, Linux, Windows

LANGUAGES

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