MIN–ZHONG **JOHN** LU

FULL–STACK SOFTWARE ENGINEER

💼 EXPERIENCES

present | 2017

Software Development Engineer, DPReview
IMDb.com   📍 Seattle, WA

· Full-stack web development, in collaboration with DPReview's editors, product managers, and other Amazon teams
· Owned visual & UX redesign and technical implementaiton of Holiday Buying Guide & Gift Guide portals; increased unique pageviews by 78% and 13% on mobile / desktop respectively

2015

Software Developer – Full-Stack
Plurk   📍 Taipei, Taiwan

· Supported cloudifying to Amazon Web Services; designed system architectures
· Designed & implemented new features across back-end, web front-end and mobile app API, including system structures and user interfaces
· Improved performance and reduced operational cost by engineering & architecting codes, RDS, Redis, Memcached, and DynamoDB usage
· Cleaned up technical debt: refactored modules, abstracted database queries, to ease developer's work

2015 | 2014

Software Engineer – Firefox OS Frontend
Mozilla   📍 Taipei, Taiwan

· Maintained input (virtual keyboard) management at System App & Keyboard App
· Implemented user dictionary for Keyboard App
· Close and agile-style collaboration with project/product managers, UX/visual designers, and fellow teammates

2014 | 2013

Software Developer – Backend
Plurk   📍 Taipei, Taiwan

· Designed the infrastructure of real-time push notification for Android app
· Built a URL indexing, aggregation and ranking service

📂 SELECTED PROJECTS

2015

Cloudification of Plurk
Plurk

· Co-planned and co-executed migrating colo servers to Amazon Web Services
· Improved system performance & reduced operational cost by engineering system architectures at various levels: engineering of EC2 Linux sysctl parameters, Memcached and Redis, and server-side & web client-side codes
· Reduced some Redis instances' memory usage by 60%~70%, comet server's required network bandwidth by 40%, DynamoDB read capacity requirement by 50%

2015 | 2014

FxOS Keyboard User Dictionary
Mozilla

· Implemented the user dictionary feature, including the UI where users input their custom words, and refactoring/extension of the existing prediction engine to incorporate predicting from user dictionary and merging results from built-in and user dictionaries
· Studied existing prediction engine codes, straightened out patterns and naming conventions, and wrote detailed documentations for the architecture

🎓 EDUCATION

2012 | 2009

M.S. in Computer Science and Information Engineering
National Taiwan University   📍 Taipei, Taiwan

Computer architecture/system design with phase-change memories

2011 | 2010

Exchange Student
San Diego State University   📍 San Diego, California

2009 | 2005

B.S. in Computer Science and Information Engineering
National Taiwan University   📍 Taipei, Taiwan

Rank: 5 of 100 / Grade average: 90.74%

Coursera (selective list)
· Human-computer interaction
· Malicious software and its underground economy
· Functional programming principles
· Unethical decision making in organizations
· Inspiring leadership through emotional intelligence
· Gamification
· Machine learning

CONTACT INFO

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SKILLS

HTML5
CSS3 & LESS
JavaScript (ES5, ES6 & jQuery)
Python

UI Design w/ Adobe XD

Memcached
Redis
MySQL
AWS EC2
AWS DynamoDB

C
C++ (incl. some C++11 & C++14)
C#
Java
System programming
Pthread parallel programming

Performance optimization
System design
Mocha testing & TDD/BDD