

YIFAN GE

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Education

Johns Hopkins University

Master of Engineering in Computer Science *GPA: 3.76/4.00*

Baltimore, MD

Sept. 2012 - May 2014

Fudan University

Bachelor of Science in Information Security *Major GPA: 3.59/4.00*

Shanghai, China

Sept. 2008 - Jul. 2012

Experience

Motorola Mobility

Senior Software Engineer

Jul. 2014 - Present

Sunnyvale, CA

- Full-stack developer and tech lead for the data analytics portal built on cloud platform using Golang and AngularJS.
- Perform code reviewer for the broader team.
- Technical interviewer for development roles.
- 3rd place team winner of the 1st Motorola Global Hackathon across Bangalore, Chicago, Sao Paulo and Sunnyvale.

Fudan University - Mobile Data Management Lab

Research Assistant, Team Lead

Sept. 2010 - Jul. 2012

Shanghai, China

- Designed a quality-aware proactive service discovery protocol for Mobile Ad-hoc Networks.
- Implemented and evaluated the protocol in a network simulator using C.
- Analyzed the data and published two academic papers as 2nd authors in international conferences.

Publications and Presentations

Oral Presentation: Xi Zhou; **Yifan Ge**; Xuxu Chen; Yinan Jing; Weiwei Sun; , ‘*A Distributed Cache Based Reliable Service Execution and Recovery Approach in MANETs*’, The 6th IEEE International Conference on Asia-Pacific Services Computing Conference, Jeju-do, South Korea, Dec. 2011.

Poster Presentation: Xi Zhou; **Yifan Ge**; Xuxu Chen; Yinan Jing; Weiwei Sun; , ‘*SMF: A Novel Lightweight Reliable Service Discovery Approach in MANET*’, The 7th International Conference on Wireless Communications, Networking and Mobile Computing, Wuhan, China, Sept. 2011.

Selected Projects

Social Networking Website (Course Project of Object Oriented Software Engineering)

Team Lead

Fall 2013

Baltimore, MD

- Established a social networking featuring finer content organization. Posts are categorized into topics subscribed by the users.
- Conceived the concept of the project, initial database design and the project framework.
- Initiated the backend APIs, implemented major parts of the frontend logic and user interface, and maintained project homepage and documentations.
- Techniques used: Ruby on Rails, RSpec, Grunt, AngularJS, Bootstrap.

Framework for Natural Interaction with Large Scaled Wall Displays

Team Member

Fall 2013

Baltimore, MD

- Collaborated in the development of the software framework for a high resolution, 25 megapixel display system which leverages the Robot Operating System (ROS) libraries to interface with Microsoft Kinect for gestural input.
- Remodeled the existing app manager and built an extensible tooltip subsystem to support multimedia for usage instructions.
- Implemented a 3D menu based on Qt and OpenGL. Coded and trained human body gestures for VR interactions with the menu.
- Techniques used: Python, Qt, OpenGL, ROS.

DSL for Programming Education (Course Project of Functional Programming at Work)

Team Lead

Fall 2012

Baltimore, MD

- Designed and developed a system for programming education through the form of a side-scrolling game. The system reads the script input by the user, and translates it into the movements of the game character.
- Game implemented in Haskell, SDL, and some other open source resources.
- Techniques used: Haskell, SDL.

Technical Skills

Languages

Python, JavaScript, Golang, Ruby, C, C++, Java, Haskell, OCaml, Rust

Frameworks & Platforms

AngularJS, Ruby on Rails, Google Cloud Platform

Tools

Linux, shell, git, Vim