Wei Shi

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Education

UoM (University of Manchester)
Sep. 2017 - Dec. 2018

M.Sc. in Computer Science (Software Engineering)
Manchester

- Research field1 (Distributed systems): utilize the CBSD (Component-based Software Development) theory to qualitatively analyze SOA (especially service composition mechanisms, i.e., orchestration and choreography), Microservice Architecture, RPC frameworks (e.g., EJB, RMI).
- Research field2 (Internet of Thing): WoT (Web of Things), Fog computing and data performance optimization.

ECUPL (East China University of Political Science and Law)
Sep. 2012 - Jun. 2016

B.Eng. in Computer Science (Internet and Information Security)
Shanghai

- Research field: Information Security, especially Computer Forensics, Electronic Evidence and Data Recovery.
- As the organiser, organized the Cyber Security Society.
- Awarded Shanghai Excellent College Student in innovative programmes.
- Awarded Academic Scholarship of Scientific Research in the school year 2013-2014.

ECUPL (East China University of Political Science and Law)
Sep. 2012 - Jun. 2016

B.A. in Law (Second Degree)
Shanghai

- Mastered a systematic view of the civil law system.

Professional Skills

Programming	Java JavaScript Node.js C# Objective-C Python SQL XQuery SPARQL LaTeX
Java	JVM ClassLoader Mechanism Garbage Collection Java Memory Model Non-blocking I/0
Development	Design Patterns Architecture Patterns Git Continuous Integration Agile Development TDD Scrum
Web	HTML CSS BootStrap AJAX XML XML schema JSON RDF Gulp npm Jasmine
Backend	Spring Boot Node.js ASP.NET MVC Python Flask MySQL .NET Entity Framework (ORM) Redis
Architecture	Distributed Systems RPC Message Queues High Availability SOA Distributed Transactions
Security	Penetration Testing Web Security XSS SQL Injection Computer Forensics Data Recovery
Others	RESTful API Linux Shell Docker UI Automation Testing Performance Testing Anti-GFW

Work Experience

Intern, Research Associate
Sep. 2018 - Mar. 2019

The University of Manchester
Manchester

- Mainly focused on the models of mainstream Web of Things platforms, especially the underlying composition mechanisms and their corresponding data performance.

Full-time, Software Engineer (Data collection team)
Jun. 2016 - Jul. 2017

Gridsum Holding Inc.
Shanghai

- Contributed to the development of data-collection SDKs to collect user behaviours in various scenarios, including Web-based pages (vanilla JavaScript), TV set-top boxes (vanilla JavaScript, Java), iOS apps (Objective-C), and Android apps (Java).
- As a *Continuous-Integration* system (TeamCity) admin, took part in managing and maintaining the Gridsum CI system.

Startup, Co-founder & Lead Software Engineer
Mar. 2014 - May 2016

Shanghai Morun Culture Transmission Co., Ltd.
Shanghai

- Organized the whole life cycle of the development of software products and maintained IT infrastructure.

Intern, Computer Forensics Engineer
Dec. 2013 - Jun. 2014

Judicial Expertise Centre in East China University of Political Science and Law
Shanghai

- Fixed, extracted, and analysed electric evidence on different platforms (Windows, Linux, and iOS), in accordance with regulations of computer judicial expertise and the principles of software systems.

Intern, Penetration Test Engineer
Jul. 2013 - Dec. 2013

Shanghai LEVSON Internet Technology Co., Ltd.
Shanghai

- Assessed and reinforced the network and application security of clients.
- Made penetration test and code audit for applications (white box testing).
- Made safe training for clients and provided solutions when emergencies.

Project Experience

Gridsum Web Dissector / Mobile Dissector/ TV Dissector/ Video Dissector
JavaScript, Objective-C, Java

GRIDSUM HOLDING INC.
Jun. 2016 - Jul. 2017

- Contributed to the development of data-collection SDKs for a Web Analytics product (Web Dissector) and mobile App Analytics product (Mobile Dissector).
- Iterated and improved the video-watching analytics products (TV Dissector and Video Dissector), e.g., solve the memory leak problem, customise the data collection strategies to support the CNTV App (CBox) stably during the Spring Festival.

Realtime Photo-Sharing System
RESTful Web Service

SHANGHAI MORUN CULTURE TRANSMISSION CO., LTD.
Aug. 2015 - May. 2016

- Led the design and implementation of this technological product, mainly based on HTML5 + Bootstrap + AngularJS + ASP.NET MVC 5 + Entity Framework 6 (ORM) + Microsoft SQL Server, running on the Alibaba Cloud.

WeChat Public Platform Service "ECUPL Teaching Affairs"
RESTful Web Service

EAST CHINA UNIVERSITY OF POLITICAL SCIENCE AND LAW
Aug. 2015 - Dec. 2015

- Delivered a system which integrates with current teaching administration system, the Moodle system, and the teaching affairs system into a WeChat-based service via ASP.NET Web RESTful API.

WeChat Public Platform Service Development
RESTful Web Service

SHANGHAI PENGBEI INTERNET TECHNOLOGY CO., LTD.
Jun.2015 - Aug. 2015

- Took charge of the development of a food-delivered system based on the WeChat Public Platform.

Teaching Management Information Inquiry System
WPF (MVVM)

EAST CHINA UNIVERSITY OF POLITICAL SCIENCE AND LAW
Apr. 2015 - Jul. 2015

- Directed and achieved a client-server system used for touch-screen machines, based on Microsoft WPF (MVVM Framework).

Email Authenticity Identification System
WPF (MVVM)

PANSAFE SOFTWARE (SHANGHAI) CO., LTD.
Sep. 2014 - Jan. 2015

- Researched validation rules in accordance with Request for Comments (RFCs) and developed the system which identifies the authenticity of emails based on Naive Bayesian.

Honors & Awards

2015	**Certification**, Certificate of Advanced Computer Programmer (Java EE)		*Beijing*
2015	**Competition**, 3nd Prize National Contest of Obtaining Evidence from Electronic Data		*Shenyang*
2014	**Competition**, 3nd Prize in National Contest of College Student Information Security		*Wuhan*
2013	**Competition**, 3st Prize in "Fish-catch Cup" Internet Security Contest		*Shanghai*

Publication

A Forensics Method Based on User Behaviours on Windows Platform
Oct. 2014

PROCEEDINGS OF CONFERENCE ON COMPUTER FORENSICS
Beijing

- Focused on the issues of the detection and obtainment of electronic evidence in Windows-based crimes.

Volunteering

Student Representative
Oct. 2017 - Dec. 2018

THE UNIVERSITY OF MANCHESTER
Manchester

- As a Student Representative, drew views from students, negotiated with the school, and settled down workable solutions.

Technical Leader
Jun. 2017 - Present

THE UNIVERSITY OF MANCHESTER CHINA ALUMNI ASSOCIATION
Beijing

- As a Technical Leader, led the development of the official website of The University of Manchester China Alumni Association.