Xiaojie(Charles) ZHA

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EDUCATION

• New York University (NYU)

New York, NY

M.S. in Computer Engineering, GPA: 3.50

May 2018

Relevant coursework: Data Structure & Algorithms, Data Center and Cloud Computing, Big Data Programming

• Queen Mary University of London (QMUL)

London, UK

B.S. in Computer and Electrical Engineering, GPA: 3.60

Jun 2016

Relevant courses: 3D Graphic Programming, Image and Video Processing, Java Programming, Software Engineering

• Beijing University of Posts and Telecommunications (BUPT)

Beijing, China

B.E. in Telecommunication Engineering with Management, GPA: 3.60

Jun 2016

Relevant courses: C Programming, Data Mining, Web Programming, Digital Signal Processing, Database Systems, Data Structure, Mobile Internet, Wireless Network, Artificial Intelligence, Internet Protocols

TECHNICAL SKILLS

- Programming Languages: Java, Android, C/C++, C#, Python, Scala
- Scripting Languages: JavaScript, angular.js, node.js, CSS, react, meteor, gulp, bootstrap
- Database Development: MySQL, SQL Server, MongoDB
- Big Data: Hadoop, Amazon EC2, Pig, Apache Spark, Docker, Cloudera, Hue, VMWare

ACADEMIC PROJECTS

Music Trends: Big Data Analysis of Music (Scala, Java, Hadoop, Pig, Spark, R, SQL)

New York, NY

Course Project of Big Data Analysis

Mar 2017 - Present

- Looking into purchase records and review datasets of Yahoo Music, Amazon, Last.fm via Pig, Spark (Scala), R.
- Analyzing shopping habits of the different music genre lovers and provide corresponding ads recommendations.
- Building a website to present results (in charts and diagrams) and provide professional insights.

Web Design: A Code Judgement System Similar to Leetcode (MangoDB, Javascript, Bootstrap)New York, NY Individual Course Project Feb 2017 – Mar 2017

- Design and developed a single-page web application for coding problems (Angular2, Auth0, Node.js, MongoDB)
- Used an online mongodb system to store and check the saved questions and answers
- Learnt how to share the project online using github and publish the web app via AWS

3D Modeling and Rendering of Lecturers' Avatars (C#, VS2015, Unity3D)

Beijing, China

Individual BUPT innovation project

May 2015 - May 2016

- Captured the motion and voice of lecturers using the Kinect Sensor, applied them onto 3D using Unity3D
- Enhanced the detection of movements of the lecturers and highlighted important points on slides
- Scored 97 out of 100 (Top 10 out of 400 students) as the B.E. final project work

Trains Control and Train Station Notice Board Simulation Design (Java, NetBeans) Individual in-class project in one week

Beijing, China April 2016

- Created a logistical simulator of train operations, including leaving, arriving and emergency stop
- Assigned routes of trains from different train stations, optimizing routes for best performance on simulator
- Designed GUI of the train control screens and the trains schedule board indicating departures of trains

Indoor Data Analysis of Mobile Terminal Trends (Android, JS, SQLite, PHP)

Beijing, China

Leader of a 5-member team

May 2014 - May 2015

- Improved triangle centroid algorithm to locate mobile devices based on WIFI intensity for user behavior analysis
- Conducted data mining of the large-scale database to trace and analyze user walking paths using SQLite
- Advised building management based on results and analysis of walking traces, enhancing operational efficiency
- Placed 1st out of 80 in the 2015 BUPT Creative Award competition

HACKATHONS

NYU Living: Online APP for House Renters to Find Roommates (MongoDB, node.js, npm, pug) *HackNYU 2017 Group Project*

New York, NY

Feb 2017

• Established the web app with posting, listing and searching functions using node.js and MongoDB

- Built the website interface by setting the general layouts, style of tables, fonts, boxes in css and pug (jade) files
- Collaborated with team members from a variety of different background and completed the project ahead of time

ADDITIONAL EXPERIENCE

•	Operation Intern in	ı Kaixin Corporat	tion Mobile G	ame Department		Dec 2013
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Assistant of IEEE International Conf. on Social Networks Analysis and Mining, managing a team of 6
 Meritorious Winner award of Mathematical Contest in Modeling Competition

Jan 2015

• Web Programmer Intern at New York Leather House

Mar 2017