

# SHUAI(MARSHALL) MA

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## EDUCATION

**Carnegie Mellon University** *Pittsburgh, PA*  
**Master of Information Systems Management** *December 2020*

**National University of Singapore** *Singapore*  
**Exchange Student** *May 2019*

**National Chiao Tung University(NCTU)** *Hsinchu, Taiwan*  
**Bachelor of Science, Information Management and Finance** *June 2019*

- GPA: 4.04 / 4.3 (Beta Gamma Sigma Honorary Business School Society)
- Academic Achievement Awards in NCTU in 2016, 2017, 2018

## SKILLS

- **Programming:** Java, Python, SQL, R, HTML, CSS, PHP, MATLAB, Swift
- **Front-end:** JavaScript, jQuery
- **Back-end & Database:** NodeJS, ExpressJS, MySQL, PostgreSQL, MongoDB, Redis, Cassandra, Neo4j
- **Tools:** AWS, Azure, Oracle, Hadoop, Spark, Lucene, Tomcat, Stata, Android studio, goormIDE, Docker, Eclipse, IntelliJ IDEA, Anaconda

## PROJECTS

**Search Engine Prototyping** *Carnegie Mellon University*  
**(Ongoing Course Project)** *Spring 2020*

- Implemented information retrieval algorithms including Unranked / Ranked Boolean, Okapi BM25, statistical language models like Indri on Lucene
- Experimented and evaluated the system's effectiveness on 588,146 documents with metrics (MAP and NDCG)

**Coronavirus Data Retrieval Application** *Carnegie Mellon University*  
**(Distributed System Project)** *March 2020*

- Built a cloud-based RESTful web service utilizing coronavirus API to fetch data, and stored user-logs in MongoDB
- Developed an Android application to communicate with RESTful web service and exhibit up-to-date information on coronavirus
- Created a web dashboard which visualizes the data retrieved from database

**Block Chain Application** *Carnegie Mellon University*  
**(Distributed System Project)** *February 2020*

- Developed a block chain web service API with SOAP(JAX-WS) and RESTful
- Implemented RSA cryptography to ensure data transfer security

**YelpCamp** *The Web Developer BootCamp, Udemy*  
**(Online Course Project)** *January 2020*

- Built a YelpCamp website(a Yelp style website for campsites) using Node.js, Express, MongoDB, Bootstrap and HTML/CSS/JavaScript
- Utilized Passport.js to implement user authentication and authorization

## INTERNSHIPS

**AsiaInfo Technologies, Inc.** *Beijing, China*  
**Software Engineer** *Summer 2017*

- Tested Data Asset Cloud Map and Visual Development Tools and identified over 20 functional issues
- Reported to senior software engineers to complete interface development and testing

**Deloitte** *Beijing, China*  
**Consulting Intern** *Summer 2018*

- Collected and analyzed related data about the gold jewelry industry and retail industry
- Organized team meetings, assigned work and kept track of the details necessary to coordinate the project, ensuring that everything was on schedule
- Led the team to finish the digital transformation report of gold jewelry retail industry, proposing the ideas of integrating jewelry with the financial industry and marketing with variety shows and web celebrities

## COURSEWORK

- **Technical:** Search Engine, Distributed System, NoSQL, OOP in Java, Database Systems, Computer Algorithms, Data Structure, Operating System, System Analysis and Design, Data Science
- **Finance & Management:** Financial Engineering, Futures and Options, International Logistics, Real Estate
- **Mathematics:** Linear Algebra, Operation Research, Statistics, Differential Equations, Discrete Mathematics

## LEADERSHIP

**NCTU Student Union** *Hsinchu, Taiwan*  
**Minister of Public Relations** *2016 & 2017*

- Led and organized over 10 activities, including NCTU Celebration Music Festival, exhibition of school clubs and reception for the Student Union from Nanyang Technological University, Singapore (over 10000 participants)
- Developed close relations with companies and raised over 200,000 TWD for the NCTU Student Union