

# Kaisheng Deng

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Current Location: Singapore  
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## Education

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- National University of Singapore** Aug 2021 - Dec 2022  
Singapore  
Master of Computing (CS Specialization)
- Core Courses: Distributed Systems, Advanced Operating Systems, Distributed Databases, Computer Systems Performance Analysis, Cloud Computing, Algorithms at Scale, Advanced Computer Networks, Neural Networks and Deep Learning
- Nanjing University** Sep 2016 - Jun 2020  
Nanjing  
Computer Science & Technology Bachelor
- GPA: overall 4.36 / 5, compulsory 4.37 / 5, both top 20%
  - Outstanding Graduate of Computer Science and Technology Department, 2020
  - Third Prize of People's Scholarship (1,000 RMB), 2018 & 2019
  - Second Prize of People's Scholarship (2,000 RMB), 2017
- University of California, Los Angeles** Jul 2019 - Aug 2019  
Los Angeles  
Summer Extension Program
- Data Science Courses, Ranking A+ (2/36)

## Internship & Work Experience

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- Tencent Technology (Shenzhen) Co., LTD** Jul 2020 - Jul 2021  
Shenzhen  
iOS Development Engineer, Tencent Video Team, Platform and Content Group
- Fixed existing bugs in Tencent Video (an app that mainly provides long videos, with over 480 million MAU in China mainland, according to statistics in June, 2020) and adding new features to it
  - Participated in Pianduoduo business development
- Bytedance Technology Co., LTD** Apr 2020 - Jun 2020  
Shanghai  
iOS Development Intern, Xigua Video Team, Innovative Business Group
- Fixed existing bugs in Xigua Video (an app that mainly provides long videos, with over 40 million MAU in China mainland)
  - Added movie & series leaderboard page to Xigua Video
- Bank of China, Jiangsu Branch** Aug 2019 - Sep 2020  
Nanjing  
Software Development Intern, Information & Technology Department
- Participated in the iterative development of the employee grading system
  - Utilized SSM (SpringMVC, Spring and MyBatis) framework

## Project Experience

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- C-- Language Compiler** Mar 2020 - Jun 2020  
Completed the project independently
- Utilized C language, combined with GNU Flex and GNU Bison to implement typical compiling phases including lexical analysis, syntax analysis, semantic analysis, intermediate code generation and object code generation
  - Project website: [https://github.com/KSDeng/Compiler\\_Construction](https://github.com/KSDeng/Compiler_Construction)
- My Calendar** Nov 2019 - Dec 2020  
Completed the project independently

- Developed a calendar app using Swift
- Utilized network request, supported CRUD of events
- Provided local notification
- Supported searching and picking locations based on Apple MapKit
- Implemented data persistence based on CoreData
- Project website: <https://github.com/KSDeng/My-Calendar2>

### **The World of Jin yong**

Jul 2019 - Aug 2019

Completed the project as team leader (3 people in total)

- Extraced and analyzed character relationships from Jin yong (a famous Chinese writer who is good at writing martial arts novels)'s 15 novels
- Utilized Hadoop MapReduce and Spark to realize Page Rank Algorithm and Label Propagation Algorithm respectively
- Project website: <https://github.com/KSDeng/NJU-Big-Data-Lab-2019>

### **Java GUI Game**

Dec 2018 - Jan 2019

Completed the project independently

- Implemented a character battle game utilizing JavaFX framework, multi-threading mechanisms, as well as collection, generics, annotations, I/O, exception handling, unit testing(JUnit) techniques
- Project website: [Project website: https://github.com/KSDeng/Java-Final-Project](https://github.com/KSDeng/Java-Final-Project)

### **Deep Neural Network Visual Modeling Based on BS Architecture**

Oct 2018 - Oct 2019

Completed the project as team leader (3 people in total)

- Director: Prof. Wenzhong Li
- Constructed a deep neural network visual modeling and operation platform based on the open source software Fabrik
- Utilized Django and React.js, supported drag-and-drop modeling
- Undergraduate Innovation Project, National Outstanding Conclusion (2/12)
- Project website: <https://github.com/KSDeng/VisualNN>

## **Extracurricular Activities**

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### **Table Tennis Team**

Sep 2016 - Jun 2020

Member Computer Sience Department

- Attended and helped arrange weekly training and participated in competitions held by the school table tennis association
- Champion of Department Cup, Nanjing University, men's group (as lead player), June, 2019
- Champion of Department Cup, Nanjing University, mixed group (as lead player), June, 2017
- No.4 in Freshmen Cup, men's single, October, 2016

## **Professional Skills**

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Programming languages: Objective C, C++, C, Swift, Java, Python, MATLAB, JavaScript, R, MySQL, Scala

Frameworks: Qt, Django, React.js, Vue.js, JavaFX, SpringMVC, MyBatis