Tian Xie

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EDUCATION

Nanjing University, Nanjing, China 08/2016-07/2020

Bachelor of Science

- Major in Computer Science and Technology; Minor in Mathematics and Applied Mathematics
- Accumulative GPA: 4.588/5.0 (Top 5%)
- Core Courses: Calculus (94), Linear Algebra (92), Programming (97), Data Structures (94), Operating Systems (92), Algorithm Design and Analysis (90), Fundamentals of Computer Systems (99), Advanced Programming (91), Pattern Recognition (91), Data Mining (90), Digital Circuits and Digital Systems (99), Discrete Mathematics (90), Graph Theory (95), Information Theory (96), Software Engineering (94)
- Minor Courses: Real Analysis, Functional Analysis, Fundamentals of Probability Theory, Advanced Probability Theory, Mathematical Statistics, Stochastic Processes, Topology, Analysis I, Mathematical Logic, Functions of one Complex Variables, Numerical Methods and Experiments, Data Analysis, Combinatorial Mathematics, Advanced Algebra, Mathematical Models in Finance

PROJECT EXPERIENCE

User Portraits and Personalized Recommendations Based on Massive E-commerce and Social Networks--- *National Innovation Project* 12/2017-12/2018

- Achievements: improved the PageRank algorithm by modifying the transfer probability matrix in terms of the user's purchase time, and proposed a new e-commerce recommendation algorithm
- Code: a total code amount of more than 7000 lines, independently completed more than 5000 lines of code (Java, C++ and Python)
- Functions: realized user social networking, commodity recommendation, commodity purchase and other functions, including support for user registration, login, multi-person online communication, add and delete friends, recommend people who may be interested in, recommend commodities, and interact with friends

PA--- *Course Project of Fundamentals of Computer Systems* 03/2018-08/2018

- Achievements: simulated an X8086 architecture-based computer with C and assembly language under Debian system
- Code: more than 15000 lines of framework code, independently completed more than 3000 lines (C, assembly language)
- Functions: realized a series functions, including ALU, reading and executing of machine instructions, kernel loading, cache and segment paging, I/O of disk and display; successfully ran typing games and Chinese Paladin 1; proposed a feasible improvement scheme for the testing and instruction parsing of framework code

Fictions of Jin Yong --- *Course Project of Comprehensive Experiment of Big Data* 06/2019-07/2019

- Achievements: used MapReduce and Spark to cluster the character diagram of fifteen fictions, based on which the relationship map is completed
- Code: Independently completed over 2000 lines (Java and Scala)
- Functions: used Apriori algorithm to cluster and mine the association rules of characters in books, construct the frequency table of co-occurrence of characters' names, calculate the PageRank value, and use the label propagation algorithm to infer the occurrence of books

Miniature 'Chinese Paladin 3' under Shell-- *Course Project of Basic Experiment of Programming Design* 04/2017-05/2017

- Achievements: realized the miniature game kernel under Windows system
- Code: independently completed over 8000 lines of code (C ++)
- Functions: realized seven attributes, ten abnormal states, and five toxic states of game characters; completed the functions of purchasing and using various skills and items; constructed the system for using equipment and combat system of multi-player vs. multi-player

INTERSHIP

CICC Capital Management Department 6/2021-now

- Conduct industry research, business analysis and deeply participate in private equity investment business and parent fund investment business. Mainly responsible for contacting industry companies, analyzing industry investment opportunities, interviewing management of proposed funds and companies, conducting business due diligence and commercial due diligence
- Independently completed financial software industry research, energy information industry research and database industry underlying technology research
- Completed internal research reports on database industry and energy industry
- deeply involved in the private equity investment business of a large SaaS company, the investment business of an

advanced manufacturing VC fund and the private equity investment business of an advanced medical device company

TECHNICAL SKILLS

- Proficient in C, C++, Java, Python, Scala, Matlab, Latex (independently completed over 30000 lines of code)
- Excellent data structure and algorithm programming skills
- Comprehensive Knowledge base in machine learning and data mining
- Solid academic foundation in computer composition principle, operating system, computer network
- In-depth knowledge of probability theory, measure theory, random process, stochastic analysis

SCHOLARSHIP

- People's Scholarship, First Class 09/2018
- People's Scholarship, Second Class 09/2017
- People's Scholarship, Third Class 09/2019