Zhutao Zhuang

📞 +86 15626278343 | ✉ zhuangzhutao@gmail.com | 🏠 bilyz98.github.io

EDUCATION

Sun Yat-sen University   Sep. 2016 – Jun 2020
Bachelor of Software Engineering   Guangzhou, CN

- GPA: 3.6 / 5.0 (Ranking: 1/28)

Sun Yat-sen University   Sep. 2020 – Jun 2022
Master of Computer Science   Guangzhou, CN

- GPA: 3.9 / 5.0   Research: Key-value store and emerging memory system

PROFESSIONAL EXPERIENCE

Microsoft   Jul. 2022 – Now
Software Engineer - Bing Search & Distribution   Suzhou, CN

- Build A/B testing data platform and model serving platform

Alibaba   Jun. 2021 – Aug. 2021
Software Enginner intern - Database Backup Service   Beijing, CN

- Optimize download and decompression of MySQL backup files.

RESEARCH INTERESTS

Machine learning for system

System for machine learning

Cloud

PUBLICATIONS

Zhutao Zhuang, Xingqi Zeng, Zhiguang Chen. "DumpKV: Learning based lifetime aware garbage collection for key value separation in LSM-tree". ***VLDB'25****(In submission)* [PDF].

Xuran Ge, Yang Liu, Lizhou Wu, **Zhutao Zhuang**, Yang Ou, Zhiguang Chen, and Nong Xiao. "SpacKV: a LSM-tree Based Key Value Separation Store on Persistent Memory." *International Conference on Network and Parallel Computing, 2022*.

Zhutao Zhuang, Yongfeng Wang, Yang Liu, Shuo Bai, Zhiguan Chen, Nong Xiao. "NVLSM: Virtual Split Compaction on Non-volatile Memory in LSM-tree KV Stores." *International Conference on Big Data Engineering and Technology, 2022.*

Honors & Awards

Second Prize Graduate Scholarship, Sun Yat-sen University	2020
National Scholarship, Sun Yat-sen University	2019
First Prize Scholarship, Sun Yat-sen University	2019
National Encouragement Scholarship, Sun Yat-sen University	2018

TEACHING EXPERIENCE

Modern Storage Techniques and Systems, Sun Yat-sen University   Fall 2020
Teaching Assistant

Computer Organization Principle and Interface, Sun Yat-sen University   Fall 2021
Teaching Assistant

ACADEMIC SERVICE

EuroSys'24 AE

MLSys'23 AE

SKILLS

Languages : C++, Golang , Bash, Rust, Python, Java, Javascript, Lua
Tools : Git, LaTeX, Pytorch, Docker, LevelDB, RocksDB
OpenSource Contribution : RocksDB, LevelDB, arxiv-latex-cleaner

中山大学学生成绩单
SUN YAT-SEN UNIVERSITY GRADE TRANSCRIPTS

学号 Student ID: 16340320　　姓名 Name: 庄铸滔 / ZHUANG Zhutao　　学习期限 Years: 2016-2020

院系 Department: 计算机学院 / School of Computer Science and Engineering　　学制 Schooling Period: 4 年/years

专业 Major: 软件工程 / Software Engineering

课程名称 Course	课类 Attr.	学时 Hours	学分 Credits	成绩 Scores	课程名称 Course	课类 Attr.	学时 Hours	学分 Credits	成绩 Scores
2016-2017 Academic Year 1st Term					操作系统原理 Operating Systems	MR	54	3	82
程序设计I Computer Programming (I)	MR	54	3	80	计算机组成原理与接口技术 Computer Organization Principle and Interface	MR	54	3	88
程序设计I实验 Computer Programming (I) Laboratory	MR	36	1	80	计算机组成原理与接口技术实验 Laboratory of Computer Organization and Interfacing	MR	36	1	84
高等数学一（I） Advanced Mathematics-1(I)	MR	90	5	74	软件工程实训（中级） Software Engineering Training: Intermediate	MR	28	2	A
软件工程专业导论 Introduction to Software Engineering	MR	36	2	87	Python程序设计基础 Introduction to Programming using Python	GE	36	2	78
线性代数 Linear Algebra	MR	54	3	67	一带一路与全球健康 One Belt One Road and Global Health	GE	36	2	B
英语学术阅读与写作（核心通识） Academic Reading and Writing	GE	36	2	86	毛泽东思想和中国特色社会主义理论体系概论 Introduction of Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics	GR	100	6	90
大学英语III College English III	GR	36	2	78	体育 Physical Education	GR	18	0.5	89
军事课 Military Course	GR	64	3	82	学术英语交流 English for Academic Communication	GR	36	2	92
体育 Physical Education	GR	36	1	89	**2018-2019 Academic Year 1st Term**				
中国近现代史纲要 Contemporary History of China	GR	36	2	76	Web安全技术 Web Security Technology	ME	36	2	94
2016-2017 Academic Year 2nd Term					编译原理 Principles of Compiler Construction	ME	54	3	91
组合计算 Combinatorial Computing	ME	36	2	81	服务计算 Service Computing	ME	36	2	93
程序设计II Computer Programming (II)	MR	36	2	91	区块链原理与技术 Blockchain principle and technology	ME	36	2	93
程序设计II实验 Computer Programming (II) Laboratory	MR	36	1	91	实时软件系统导论 Introduction to Real-time Software System	ME	36	2	90
高等数学一（II） Advanced Mathematics-1(II)	MR	90	5	63	通信原理与系统 Communication Theory and Systems	ME	54	3	98
离散数学基础 Discrete Mathematics	MR	90	5	72	计算机网络 Computer Networks	MR	54	3	93
软件工程实训（初级） Software Engineering Training: Elementary	MR	14	1	B	计算机网络实验 Laboratory of Computer Networks	MR	36	1	93
网络开发工具与技术（核心通识） Web develop tools and technology	GE	36	2	91	地球资源学（核心通识） Resources of the Earth	GE	36	2	87
大学英语IV College English IV	GR	36	2	79	营养与女性健康 Nutrition and Women's Health	GE	36	2	91
思想道德修养与法律基础 Moral Character Cultivation and Basis of Law	GR	54	3	84	**2018-2019 Academic Year 2nd Term**				
体育 Physical Education	GR	36	1	88	分布式计算 Distributed Computing	ME	36	2	92
2017-2018 Academic Year 1st Term					人工神经网络实验 Practice of artificial neural networks	ME	36	1	89
Web 2.0程序设计 Programming on Web 2.0	ME	54	3	87	人工神经网络原理 Principles of Artificial Neural Networks	ME	36	2	85
概率论与数理统计 Probability and Statistics	MR	54	3	82	软件测试 Software Testing	ME	54	3	96
数据结构与算法 Data Structures and Algorithms	MR	54	3	77	数据挖掘导论 Introduction to Data Mining	ME	54	3	95
数据结构与算法实验 Data Structures and Algorithms Laboratory	MR	36	1	77	数字信号处理 Digital Signal Processing	ME	54	3	94
数字电路与逻辑设计 Digital Circuits and Logical Design	MR	54	3	81	系统分析与设计 System Analysis and Design	ME	54	3	77
数字电路与逻辑设计实验 Laboratory of Digital Circuits and Logical Design	MR	36	1	92	现代通信技术概论 Introduction to Modern Communications	ME	54	3	84
金融学原理 Principles of Finance	GE	36	2	77	软件工程实训（综合项目） Software Engineering Training: Integrated Projects	MR	84	4	A
网络攻击与防御技术(核心通识) Network attack and defense technology	GE	36	2	79	软件工程综合实验 Software Engineering Team Project	MR	36	1	86
马克思主义基本原理 The Principles of Marxism	GR	54	3	85	体育 Physical Education	GR	18	0.5	97
体育 Physical Education	GR	18	0.5	86	**2019-2020 Academic Year 1st Term**				
英语演讲与辩论 Public Speaking and Debating	GR	36	2	81	体育 Physical Education	GR	18	0.5	86
2017-2018 Academic Year 2nd Term					形势与政策 Current Situation and Policy	GR	36	2	80
数据库系统 Database Systems	ME	54	3	91	**2019-2020 Academic Year 2nd Term**				
数值计算方法 Numerical Methods	ME	54	3	97					
现代操作系统应用开发 Development of Applications on Operating System	ME	36	2	89					
现代操作系统应用开发实验 Laboratory of Development of Applications on Operating System	ME	36	1	89					
云计算概论 Introduction to Cloud Computing	ME	54	3	83					

学分及绩点 Credits & GPA	Total	GR+MR	ME	GE
毕业应得学分 Major Required	162	96	50	16
主修实得学分 Major Obtained	163	96	51	16
主修课程平均绩点 GPA: 3.5	必专绩点 GR+MR+ME GPA: 3.6			

Signature:

陈省平 Dr. Chen Shengping, Director

Office of Education Administration

Date: July 12, 2022

中山大学学生成绩单
SUN YAT-SEN UNIVERSITY GRADE TRANSCRIPTS

学号 Student ID: 16340320　　姓名 Name: 庄铸滔 / ZHUANG Zhutao　　学习期限 Years: 2016-2020

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课程名称 Course	课类 Attr.	学时 Hours	学分 Credits	成绩 Scores	课程名称 Course	课类 Attr.	学时 Hours	学分 Credits	成绩 Scores
毕业论文 Final Year Project (Bachelor Thesis)	MR	288	8	A					
----- End of Transcripts -----									

学分及绩点 Credits & GPA	Total	GR+MR	ME	GE
毕业应得学分 Major Required	162	96	50	16
主修实得学分 Major Obtained	163	96	51	16
主修课程平均绩点 GPA: 3.5	必专绩点 GR+MR+ME GPA: 3.6			

Signature:

陈省平 Dr. Chen Shengping, Director

Office of Education Administration

Date: July 12, 2022

证　明

学生　庄铸滔（学号：16340320），男，出生于1998年9月。自2016年至2020年在中山大学计算机学院软件工程专业学习，必修和专选课程平均绩点为3.6，在本专业28人之中排名第1。

评分体系：
90-100=4.0-5.0，　80-89=3.0-3.9，　70-79=2.0-2.9，　60-69=1.0-1.9，　0-59=0

中山大学教务部

2022 年 7 月 12 日

CERTIFICATE

This is to certify that **ZHUANG Zhutao** (Student ID: 16340320), Male, born in September 1998, studied in Software Engineering Major of School of Computer Science and Engineering at Sun Yat-sen University between 2016 and 2020 as an undergraduate, with a GPA of 3.6 for required and major elective courses, and ranked 1 among the 28 students in his major.

Grading System:
90-100=4.0-5.0, 80-89=3.0-3.9, 70-79=2.0-2.9, 60-69=1.0-1.9, 0-59=0

Office of Education Administration
Sun Yat-sen University
July 12, 2022

中 山 大 学 研 究 生 成 绩 单
SUN YAT—SEN UNIVERSITY GRADE TRANSCRIPTS

姓名:庄铸滔 Name:ZHUANG ZHUTAO　　　　学号 Student ID: 20215096　　出生日期 Date of Birth:1998/9/29

培养层次:硕士　Degree: Master　　　　　　在校学习时间 Study period:2020/9 – 2022/6

学院:计算机学院（软件学院）　Department: School of Computer Science and Engineering

专业:计算机技术　Major:

学籍状态:毕业　Postgraduate Student Status: Graduate

课程名称 Course	课程属性 Attribute*	学时 Hours	学分 Credits	成绩 Scores
现代人工智能技术（包括人工智能基础理论、机器学习、深度学习等）Modern Artificial Intelligence Technology	必修 R	72	4.0	89
算法设计与分析 Algorithm Design and Analysis	必修 R	72	4.0	94
数字图像处理 Digital Image Processing	必修 R	72	4.0	84.90
软件工程中的人工智能 Artificial Intelligence in Software Engineering	必修 R	72	4.0	90
系统分析与设计 System Analysis and Design	必修 R	72	4.0	87
学术规范与论文写作 Academic Norm and Writing	必修 R	36	2.0	95
工程伦理 Engineering Ethics Education	必修 R	18	1.0	95
专业实践 Professional Practice	必修 R	72	4.0	95
电子信息专业前沿讲座 Electronic Information Major Frontier Lectures	必修 R	36	2.0	95
基础英语 English	必修 R	36	2.0	80
中国特色社会主义理论与实践研究 Research on the Theory and Practice of Socialism with Chinese Characteristics	必修 R	36	2.0	78
自然辩证法概论 Dialectics of Nature	必修 R	18	1.0	80

【以下空白】

应修总学分 Total Credit Required：32　　　　已修总学分 Total Credit Obtained：34.0

学位论文题目：面向NVM读写结构的LSM树优化

Title of Thesis： Optimization for LSM-tree with utilization of read write characteristic Non-volatile Memory

学位论文通过与否 P/NP：通过 P

REMARKS:

1. On October 26, 2001, Zhongshan University and Sun Yat-sen University of Medical Sciences merged into the present Sun Yat-sen University.
2. Grading system of test: (1) A(Excellent)=90-100; B(Good)=80-89; C(Satisfactory)=70-79; D(Pass)=60-69; E(Fail)=0-59. (2) P(pass)=60-100; F(Fail)=0-59.
3. Results of thesis defense: P - Pass; NP - Not Pass.
4. * R- required;E-electives.

Graduate School,Sun Yat-sen University

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Signature:

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Date Issued：2022/07/12

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