Yinchen Ni

Nick name: Hamster Webpage: hamham223.com EDUCATION Email: niyinchen@sjtu.edu.cn Mobile: +86-181-5742-5386 Linkedin: in/yinchen-ni-hamham/

EDUCATION		
• University of Michigan - Shanghai Jiao Tong B.S. in ECE, Minor in CS (in progress); GPA: 3.8		Shanghai, China Sep. 2020 - Aug. 2024
Related Courses Taken:	Courses in Progress:	
• VE370, Intro. to Computer Organization.	• ECE3110J, Electronic Circuits	
• VE373, Design of Microprocessor Based Systems.	• ECE4730J, Advanced Embeded	Systems.
• VE472, Analysis and Tools for Big Data.(A+)		
• VE482, Intro. to Operating Systems.(A+) WORKING EXPERIENCE		
• AI Platform Engineering Intern, Intel • Contribute to BigDL: fast, distributed, secure AI for	or Big Data on Intel hardware	Offline Dec. 2022 - May. 2023
 Project orca: Refactored github repo CI/CD daily/nightly testing; Validated Yarn, K8S clu Created dockerfile for orca under different pyt 	ster setting, updated corresponding	
• Project fresian : Developed Big Data recomm Released the corresponding tookit with docker		responding documents;
Research Assistant, SJTU EHPCL		Offline
• Topics: Real-Time scheduling in heterogeneous com	nputing architecture	Dec. 2022 - Present
 Modeled general heterogeneous computing arc workload function on tasksets; Conduct an en- schedulability with real CUDA programs; Imp Teaching Assistant, UM-SJTU JI I 	d-to-end response time analysis; Vali	idate and compare
• Courses: Intro to Computer Programming, Data St	tructures Honors Math Discrete Mo	0
• Leaded recitation classes in English; Designed		
SKILLS SUMMARY	course projects and lass, craded ne	
• Speaking : Mandarin (Native), English (CET6 Toefl: 102, GRE: 319)		lotlib, Pandas, OpenCV
• Programming: C/C++ (linux, embedde), Python, Scripting, Matlab, MySQL, Java PROJECTS	 Frameworks: CUDA, Hadoo , Shell • Tools: L^AT_EX, Git, Do 	op, Spark, K8S, Pytorch ocker, Origin Lab, Nsys Profile
 Big Data Recommendation system on Million S Transferred data into avro in parallel; Examined Mapreduce to recommend the most similar song and predicted the year of songs; Demonstrated by Music Game on PIC32 Microchip Q: 	data basic property by Drill sql query; g with customization metrics; Reduced of IAT_EX beamer and A1 poster.	data dimension by MLLib PCA
 Use UART to interact and display on the screen, the looped music using Timer and PWM. Multi-threaded DataBase Optimization Q: 	, get pressures (as hits) from the piezore	esistor by \mathbf{ADC} module, control
 Supported basic SQL conditional queries; Optimi Detected optimized thread number based on table Simple Shell (mumsh) Based on C Q: Supported basic unix commands and error handli 	e size automatically.	
handling and shell built-in command; Passed cpp HONORS AND AWARDS		bes, implemented interrupt sign
• 2022 Yu Liming Scholarship - Nov. 2022		
• Finalist in 2022 American College Math Modeling	Computation - May. 2022	
• 2021 National Scholarship - Oct. 2021	- •	
• 2021 John Wu & Jane Sun Sunshine Scholarship -	Nov. 2021	
• B Outstanding Scholarship for Undergraduate Stud		
STUDENT ACTIVITY		
UM-SJTU JI Teaching Assistant Mentor		
 Plan/ facilitate/ lead TA training programs and TA President of SJTU Piano Association 	A managements.	March 2023 - Present
• Conduct offline Piano Concert opening for all SJT		June 2021 - July 2022
Student Volunteer in Welcoming 2022 SJTU	Graduate Students	
Guide and help more than 100 students		Sept 2022
• Member in SJTU-JI Student Union Tech De	-	s Sent 2021 - Sent 2020

• Organize events, conduct workshops and delivered workshops reaching over 300 students.

Sept 2021 - Sept 2022