David Hanan Li

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EDUCATION December 2021	Georgia Institute of Technology, Atlanta GA	Graduated
December 2021	Master of Science in Computer Science, Systems Specialization Relevant Courses: Advanced Operating Systems, System Issues in the Cloud	GPA: 4.0
	University of Michigan, Ann Arbor MI Bachelor of Science in Computer Science Bachelor of Science in Data Science Relevant Courses: Operating Systems, Machine Learning, Web Systems, Data Struct	Graduated May 2020 GPA: 3.823 ctures and Algorithms
EXPERIENCE	 Google, Seattle WA Software Engineer Intern February 2022 – Current Built data pipelines in SQL that processes petabyte scale of ads data from an online advertising panel for modelling purposes. Help prove potential for recovering million-dollar scale of revenue by implementing a cascading waterfall model. Leading team to leverage LLM technology to build a natural language to graph dashboard for metrics visualization for clients. Designed and built backend and frontend survey feature for users to collect additional privacy safe information using Java and typescript. 	
	 Google, Mountain View CA Software Engineer Intern May 2021 – August 2021 Responsible for metadata syncing of internal metadata catalog team. Processed and populated metadata field for at least 28% of all considered catalog rows by building a data processing pipeline in C++ to sync in data from another source. Reduced pipeline runtime by 83% through optimization techniques such as sharding, filtering, and heuristic matching with prefix tries. Designed and added new commands to internal command line tool using C++. 	
	 Microsoft, Seattle WA Software Engineer Intern May 2019 - August 2019 Responsible for performance optimization for backend service in an internal Microsoft Advertising team. Improved Authentication API speed by 10% on average by optimizing .NET C# service's architecture. Lowered .NET service's garbage collection active time by 20%, decreased service's commit size RAM by 25% by changing the backend software architecture of service. Analyzed system performance and changed software architecture by utilizing regular and REDIS caches 	
RESEARCH	 Miniature Tether Electrodynamics Experiment (MiTEE), Ann Arbor MI Assistant Lead of Command and Data Handling Sub-team Developed custom file system for cube satellite using C, communicating with Implemented and tested heartbeat communication potocol for transmitting Designed and built backend SQL database, server and Grafana dashboard to a satellite data. Designed MiTEE's public website, using HTML and Bootstrap CSS 	g data back to Earth in C.
SKILLS	Programming Languages: C++, C, Java, SQL, Python, HTML, CSS, Go Frameworks and Services: Azure, Kubernetes, Mininet, Docker, .NET	