

Liming Huang

Boston, MA | (207)-252-0730 | huang.lim@northeastern.edu | [github/lim-huang](https://github.com/lim-huang)



EDUCATION

Northeastern University , Boston, MA	<i>Jan.2023 – Dec.2025</i>
<ul style="list-style-type: none">Master of Science in Computer Science (<i>GPA: 3.8/4.0</i>)	
University of International Business and Economics , Beijing, China	<i>Sep.2015 – Jun.2017</i>
<ul style="list-style-type: none">Master of Finance Engineering (<i>GPA: 3.9/4.0</i>)	
China University of Geosciences , Wuhan, China	<i>Sep.2011-Jun.2015</i>
<ul style="list-style-type: none">Bachelor of Computer Science (<i>GPA: 3.7/4.0</i>)	

CERTIFICATIONS & TECHNICAL SKILLS

AWS Certified Solutions Architect - Associate

Programming Languages: C/C++, Java, Golang/Go, Python, JavaScript, SQL, HTML/CSS,

Web Development: Spring Boot, gRPC, Kafka, Kubernetes, NodeJS, Express, React, MySQL, MongoDB, Redis, Git, Docker

Concepts: Linux, Cloud Computing, Distributed System, Object-Oriented Design, Algo Trading, Linear Programming

EXPERIENCE

1 Thing	Boston, MA
Intern Backend Software Engineer	<i>Aug.2024 - Present</i>
<ul style="list-style-type: none">Created a registration system for therapy kits integrated with RESTful APIs by Node.js serving more than 800 clientsAutomated real-time data transformation and analysis by AWS lambda to enable scalable serverless management, reducing monthly cost by 54% compared to a provisioned instancePerformed cleaning of the data using PostgreSQL on Linux servers, achieving a 27% reduction in query latency	
Hundsun Electronics	Hangzhou, CN
Intern Software Engineer	<i>Jul.2022 - Oct.2022</i>
<ul style="list-style-type: none">Restructured the workflow by splitting serial processes into parallel branches with a parallel gateway, using ConcurrentHashMap for thread-safe context management and implementing a merge node for result aggregation, achieving an 81% decrease in execution timeDeveloped a query interface leveraging Elastic Search to retrieve Rowkeys for HBase, resulting in a 73% improvement in query speedAddressed the need for real-time message handling over 1,000,000 per second by using Kafka to process user actions and inventory updates instantaneously	
Caitong Securities	Shanghai, CN
Quantitative Research Research Institute	<i>Jul.2017 - Jun.2018</i>
<ul style="list-style-type: none">Designed and implemented a Deep Q-Network (DQN)-based index timing strategy. Tested the sensitivity of the discount factor gamma and performed parameter optimization. Achieved a Sharpe ratio of 1.05 over three years on the CSI 1000 indexOptimized the multi-factor model by designing factor layering to address non-linear characteristics of the factors. Backtested the framework resulting in a 126.40% improvement in return and a 20.73% reduction in maximum drawdownUtilized Pandas and NumPy for data processing, and managed parallel computing using the multiprocessing module, achieving a reduction in strategy execution time from 2 hours to 45 minutes on Alibaba Cloud	

SELECTIVE PROJECTS

Fault-tolerant SDN Controller <i>Golang, AWS</i>
<ul style="list-style-type: none">Designed and developed a custom SDN controller using OpenFlow protocol, integrating algorithms and data structure like Raft and MWMR for distributed system to reach consensus and simultaneous accessUtilized network simulation tools such as Mininet for testing and validation, ensuring the correctness and robustness of the controller in various network scenarioDeployed the controller on Amazon EKS involves creating the cluster, pushing Docker images, managing Kubernetes nodes, and monitoring container performance and logs through CloudWatch