Xingkun Yin

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EDUCATION

M.S. Computer Science   September 2021 **-** Expected January 2023

Boston University, College of Arts and Sciences   Boston, MA
- CGPA 3.90
- Coursework: Database, Network, Algorithm, Stream Data Processing, Distributed System

B.S. Computer Science & Statistical Science   September 2016 **-** June 2021

University of Toronto   Toronto, Canada
- Merit award: Honours Degree
- CGPA 3.21
- Coursework: Algorithm Design & Analysis, Operating System, Computer Organization, Computer Security, Data Structure, Statistical Theory, Probability, Computer Network, Machine Learning, Web Programming, Programming Language, Computer Graphic, Computer Vision, Parallel Programming

TECHNICAL SKILLS

Programming Language: Java, Golang, C Language, Python, JavaScript, HTML, CSS, SQL, C#, R

Tools: Flink, SQL Server, MySQL, NodeJS, ReactJS, MongoDB, RESTful API, GIT, DojoJS, MVC.NET, TensorFlow, Keras

PROFESSIONAL EXPERIENCE

Software Development Engineer Intern   May 2022 - August 2022

Amazon.com Inc, Amazon Web Service (AWS)   Boston, USA
- Constructed 3 new recommendation API features for potential customers interested in migrating on-premise servers onto AWS.
- Expanded the scope of a project and turned a solution of a specific scenario into a functionality that would be widely used by the customers.
- Participated in optimizing the AWS migration service for the customers as well as wrote design documentations and wiki instructions useful for the AWS Migration Hub community.

Software Engineer Intern   May 2019 - August 2020

Ceridian HCM, Inc.   Toronto, Canada
- Migrated platforms from Silverlight to DojoJS, ReactJS frontend and ASP.NET backend.
- Constructed several new features for the online payroll engine both frontend and backend.
- Created an internal accountant payroll calculation software with initiative and elegant graphic user interface easy to use for non-technical based colleague.

PROJECT

Raft Distributed Shard Key Value Store | Distributed System   Spring 2022
- Golang, Raft
- Implemented a distributed, sharded key value store with strong consistency

A state caching system for Apache Flink | Stream Processing System   Spring 2022
- Java, Flink

- Implemented a state cache system utilizing the temporary locality of RocksDB in Flink backend under the guidance of PCM member of Apache Flink

LSM Tree | Database   Spring 2022

- C++, LSM Tree
- Implemented a LSM Tree with Leveling and Tiering compaction

SimpleDB |Relational Database, SQL   Fall 2021

- Java, Relational Database
- Implemented a relational, SQL like, database that enable basic SQL queries

Operating System Projects   Spring 2019

- **Unix File System**: Design and Implement an extent-based EXT4-alike file system
- **Multithreading**: Implement a message queue
- **Memory Management**: Implement page replacement algorithms: FIFO, LRU and CLOCK

Project Management System | Web Application   Fall 2020

- JavaScript(ES6+), ReactJS, Bootstrap, NodeJS, MongoDB, RESTful API (Axios)
- Utilized useful libraries, to implement routing, session management and data verification
- Connected frontend and backend using RESTful API with Axios
- Developed elegant UIs using React Bootstrap

PUBLICATION

Xingkun Yin, Da Yan, Abdullateef Almudaifer, Sibo Yan, Yang Zhuo, **Forecasting Stock Prices Using Stock Correlation Graph: A Graph Convolutional Network Approach**, The International Joint Conference on Neural Networks 2021 (IJCNN 2021)