

Edward Chang

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EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science, Specialization in Machine Learning

Atlanta, GA

Aug. 2023 – May 2025

University of Western Ontario

Bachelor of Engineering Science

London, ON

Sep. 2018 – June 2023

EXPERIENCE

Software Developer Intern

Pelmorex

Jan. 2023 – May 2023

Mississauga, ON

- Improved TypeScript weather description generator by 83% for hyper-accurate weather descriptions with 2M+ daily API requests.
- Reduced telemetry storage for weather description generator by 93% via aggregation and field reduction, resulting in decreased costs and improved analytics.
- Implemented Jenkins pipeline in Python/Pandas to convert weather templates from Google Sheets to sqlite3 files on AWS S3. Deployed on Docker/Kubernetes. Reduced dependencies, and improved productivity.
- Full Software Development Life Cycle (SDLC) experience: requirements, analysis, design, development, testing, deployment, maintenance.

Software Developer Intern – Online Services

Square Enix

Jan. 2022 – Aug. 2022

Montréal, QC

- Developed a Java-based API tool to track player progress across multiple platforms, improving data analytics for enhanced insights into game-player behavior.
- Implemented a C++ client-side rate limiting tool to improve game server stability during high player traffic, mitigating game-wide crashes caused by bugs/spamming, upholding the game company's interests.
- Collaborated in an agile environment with daily scrum meetings, sprints, and other agile practices to ensure efficient project delivery.

Software Developer Intern – Salesforce

Traction on Demand (Acquired by Salesforce in 2022)

May 2021 – Dec. 2021

Burnaby, BC

- Enhanced client experience by implementing custom workflows and API endpoints in Salesforce, reducing clicks required to perform actions.
- Designed and implemented unit testing strategies to maintain code coverage above 80% for projects.

PROJECTS

NFT Portfolio | *TypeScript, Golang, NextJS, Express, Redis, MongoDB, DigitalOcean*

Sep. 2022 – Apr. 2023

- Launched a web service from market demand, attracting 11K+ unique users and 50K+ unique sessions within a month.
- Increase of 714% in average user engagement time, from 16 secs to 1 min 54 secs, by optimizing server performance through techniques such as reducing mean-time-to-failure, implementing data caching, request queuing, and data scraping, resulting in improved user experience and increased insights.

NFT Rental Platform | *Solidity, MongoDB, React, Express, JavaScript/TypeScript*

Sep. 2022 – Apr. 2023

- Led the integration of Solidity for blockchain development within a yearlong MERN project, rapidly mastering new technologies to deliver a robust cryptocurrency platform.
- Demonstrated exemplary leadership skills by efficiently organizing team tasks, facilitating decision-making, and maintaining a cohesive development process. Resulted in an on-time project delivery and high team satisfaction.
- Proactively played a pivotal role in troubleshooting complex technical issues, resolving critical issues within a short timeframe, resulting in improved team productivity and code quality.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript/TypeScript, CUDA, SQL, HTML/SCSS

Frameworks: React/NextJS, Node.js, Express, Java Spring, JUnit, Jest, K6

Developer Tools: Git, Docker, Jenkins, Linux, Amazon Web Services, Google Cloud Platform

Libraries: MongoDB, Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, OpenMP