# Quoc 'Q' Cong

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## EXPERIENCE

**Google**                                                                                        Jul 2022 – Present
*Software Engineer L3*                                                                                    *Chicago, IL*
- Developed a **streaming pipeline** to process and store high-volume data for ensuring safety within Ads.
- Led the front-end development of a **dashboard** to visualize pipeline data and launched into production for internal usage among the Ads auditing team, resulting in major improvement in team efficiency.
    - Designed and built the app with **Angular** and **TypeScript**, contributing **5000+** lines of code from scratch.
    - Profiled and optimized back-end queries, leading to a **20×** boost in querying speed.
    - Coordinated with cross-functional teams to prioritize and address **15+** bug tickets and feature requests post-launch, ensuring that **90%** of issues were addressed within set timelines.
- Implemented **integration tests** for the dashboard and the back-end pipeline, enabling the team to deliver new features on a weekly schedule while maintaining product quality.
- Executed a **production server migration**, including ACLs and permissions, to a new platform to increase support for production roll-outs and monitoring.
    - Effectively communicate migration progress by providing regular, transparent updates to the impacted teams.
    - Orchestrated the triage process during migration roll-outs, identifying and resolving **2 critical production issues** to ensure minimal disruption to consuming services.
    - Promoted **code hygiene** among the team by removing legacy code and ACLs.

**University of Michigan**                                                                        Jan 2022 – Jun 2022
*Graduate Student Instructor – EECS 280 (Programming and Intro Data Structures)*                          *Ann Arbor, MI*
- Collaborated with the course staff to assist with teaching **1300+** enrolled students.
- Held weekly 36-student labs to explain introductory **programming concepts and data structures**, including Object-oriented programming, recursion, linked list, and array.
- Clarified confusion and strengthened understanding on course materials and coding projects during office hours to foster student success.

**Learning A-Z**                                                                                  May 2020 – Aug 2020
*Software Engineering Intern – iOS Team*                                                                  *Ann Arbor, MI*
- Introduced features to the parent portal, increasing transparency into student activities and learning progress.
    - Integrated existing back-end APIs into new front-end designs using **Swift**.
    - Used **XCode Simulator** and **Postman** to thoroughly test new features and API requests.
- Delivered a live teaching demonstration on **REST APIs** to the intern team.

## PROJECTS

**CityHaLLM** | *Python, TypeScript, Flask, NextJS, TailwindCSS, DynamoDB, LLaMA*                          Jul 2024
A web application where users can get summaries of city hall and council meetings, currently supporting **15+** meetings across cities in Michigan.
- Implemented a mobile-friendly interface with map visualization using **NextJS**, **TailwindCSS**, and **Leaflet**.
- Programmed an API on a **Flask** server for interacting with the back-end and database on **DynamoDB**.

## EDUCATION

**University of Michigan**                                                                                Jun 2022
*Master of Science in Computer Science & Engineering*                                                    *Ann Arbor, MI*

## TECHNICAL SKILLS

**Languages**: Java, Python, C++, TypeScript, JavaScript, HTML/CSS, SQL, Swift
**Frameworks**: JUnit, Mockito, Angular, Flask, React, Jasmine, Dash Plotly
**Tools**: Git, Visual Studio, VSCode, XCode, Unity, PyCharm, JIRA, Android Studio