Chengzhi (Charlie) Gu

Senior Engineering Manager @ Pinterest

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EXPERIENCE

Senior Engineering Manager @Pinterest, San Francisco, CA

Mar 2023-Present

- Lead the Analytics Platform team spanning analytics tooling, internal tools platform, ML & Workflow tooling, and GenAI enablement to improve dev and general productivity.
- Drive development of internal tools like Querybook, Superset, ITP, PDocs, and MLHub for data, tooling, and documentation needs.
- Drove wide adoption of GenAI at Pinterest by enabling LLM API access, prompt eval tooling, and productivity tools.

Senior Software Engineer @Pinterest, San Francisco, CA

June 2017-Mar 2023 (internship Jan - May 2015, Jun - Aug 2016)

- Led development and open-sourcing of Querybook, one of Pinterest's most-used and highest-rated internal tools; scaled it with a plugin-based architecture and improved usability with CI/CD and comprehensive docs.
- Improved the Internal Tools Platform with a Docker-based VSCode dev setup and streamlined Jenkins Groovy pipelines.
- Initiated and designed data tools like Flohub (SQL scheduler UI) and WQuery (template-based query interface).

Undergrad Research Assistant @University of Waterloo, Waterloo, ON

Sept 2016-Dec 2016

- Developed a network motif detector based on mfinder to analyze large graphs under supervision of Prof. Semih Salihoglu.

Software Engineer Intern @Microsoft, Redmond, WA

Sept 2015-Dec 2015

- Productionized a random forest-based anomaly detector on Cosmos and built a support ticket categorizer with a manual correction UI.

PROJECT HIGHLIGHTS

Querybook   Sept 2017 - Present

React/Redux, Flask, Celery, SocketIO, ElasticSearch

- A Big Data Query IDE with collaborative editing and visualizations.
- Can execute many queries with live updates by leveraging Celery and SocketIO.

WebGL Engine   June 2017 - Nov 2017

WebGL, browserify

- A 3D graphics renderer built with vanilla JS. Supports terrain/water rendering, skybox, lighting.

SKILLS

Languages

- Typescript
- Javascript
- Python
- Groovy
- SQL

Technologies
Web

- React
- Redux
- Shadcn
- Tailwind
- Next.js
- Vite

Backend

- Docker
- FastAPI/Flask
- Celery
- SQLAlchemy
- Langchain
- Langgraph

Databases

- MySQL
- Redis
- ElasticSearch

EDUCATION

UT Austin

Sept 2021 - Apr 2024

Master of Science, Computer Science

University of Waterloo

Sept 2012 - Dec 2016

Bachelor of Mathmatics, Computer Science, Combinatorics & Optimization