Daren Liang

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in darenliang

EXPERIENCE

• Citi

New York, NY (remote)

Software Engineer Contract

May 2022 - Present

o Risk Management: Quant risk libraries

• Oanda Toronto, ON

Software Developer Intern

May 2020 - August 2021

• Forex and CFD Trading Systems: C++ and Python microservices development

EDUCATION

• University of Toronto Computer Science Specialist Toronto, ON

Sep. 2018 - Present

- o University of Toronto Scholar
- o 2018-2020 Dean's List Scholar

Programming Skills

- Languages: Go, C/C++, Python, JavaScript/TypeScript, Java, Scala, SQL
- Technologies/Tools: AWS, Docker, React.js, Vue.js, Qt

Projects **?**

- Nikel API: Free and open data API for the University of Toronto.
 - **RESTful API**: Using the Gin Go web framework.
 - Selenium WebDriver and BeautifulSoup: Web scraping and data parsing.
 - Caching: Requests are cached and stored in a key-value database backed by BadgerDB.
- MikuBot: General purpose Discord bot serving more than 8,000 servers.
 - Amazon DynamoDB: Database for storing server data.
 - **Docker**: Ready to deploy Docker image.
- Dsfs: A highly-experimental filesystem in userspace using FUSE with an exotic backend.
 - Exotic backend: Files, folders, and transactions are stored using Discord attachments.
 - Append-only log-structured filesystem: Supports automatic snapshots and rollback.
 - Realtime synchronization: Syncing files and folders between remote clients in realtime.
 - **Performance optimizations**: A variety of techniques are used such as buffering and checksums to ensure there are no unnecessary uploads/downloads and the differences between local and remote states are minimal.
 - Cross-platform support: Supports major OSes such as Windows, macOS, and Linux.
 - o Additional information: https://www.darenliang.com/posts/fuseing-for-fun/
- Decentralized Text Chat Web App: Peer to peer text chat using WebRTC.
- **Quteman**: A simple Postman alternative written in C++ and Qt.
- Resauce: A work-in-progress file rename utility written in C++ and Qt. Developed with a team of two.
- Gomatheval: Evaluates basic math expressions in Go using Shunting Yard and Reverse Polish.
- Mal-api: Python library for querying data from MyAnimeList
- Jikan-go: Go wrapper for Jikan API.

Involvements O

- UTM Robotics: utmrobotics.com (currently archived)
 - Lead Web Developer: Worked on website redesign. Website built with Jekyll.