Daren Liang

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EXPERIENCE

• Oanda

Toronto, Ontario

in darenliang

Software Developer Intern

May 2020 - August 2021

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

EDUCATION

• University of Toronto

Computer Science Specialist

Sep. 2018 - Present

- o University of Toronto Scholar
- \circ 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.
- \bullet MikuBot: General purpose Discord bot serving more than 5,000 servers.
 - Amazon DynamoDB: Database for backing up 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.
 - \circ 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 Qt.
- Resauce: A work-in-progress file rename utility written in 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
- TicTacToe Engine: Implemented in Rust using a minimax algorithm.
- Jikan-go: Go wrapper for Jikan API.

Involvements •

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