

EDUCATION

Bachelor of Science in Computer Science (GPA: 3.76)

University of Cincinnati - Cincinnati, OH

Graduate in Spring 2019

Courses: Compiler Design, Networking, Operating System.

PROJECTS

- **A compiler** for a made-up programming language: github.com/maiquynhtruong/compilers.
 - Scanner and parser were written from scratch without using external tools like Flex and Bison.
 - Code generation uses **LLVM C API**, which is poorly documented and has less methods than C++ API.
 - Everything is created in **C** with heavy pointer arithmetics and no support for object-oriented concepts.
- **Repeating Reminders** Android application where users can create and edit recurring reminders. Developed with **Material user interface design** principles: github.com/maiquynhtruong/Repeating-Reminders.
- **Github Jobs Fetcher** Android application to pull job information from the Github Jobs API: github.com/maiquynhtruong/github-jobs-fetcher. The application:
 - Requests data with **Retrofit** and loads Job objects asynchronously with **RxAndroid**.
 - Uses **data binding** to bind data from model to view and **Dagger 2** for dependency injection.
 - Has unit tests using **Mockito** and UI tests using **Espresso**.
- Frequently solve problems on Leetcode and collect interesting algorithms: github.com/maiquynhtruong/leetcode, github.com/maiquynhtruong/algorithms-and-problems

EMPLOYMENT

Android Engineer Intern at Atomic Robot - Mason, OH

May 2018 - Aug. 2018

- Developed Android mobile applications in **Kotlin** and **Java** with peer-review and test-driven development.
- Refactored an app to use Material Design components, resulting in an 15% increase in user engagement.
- Automated project - resource allocation process by creating Google Sheet App Scripts program that generates allocation given employees' availability and project timelines.

Software Engineer Intern at Swisslog - Mason, OH

May 2017 - Dec. 2017

- Developed and wrote unit tests to automate Distribution Center conveyor belt system for two projects.
- Analyzed data from SQL database to create XML message sent between agents and customer systems.

OPEN SOURCE CONTRIBUTIONS

- **Curiosity:** Implemented features to show, add and remove usernames to a web app that finds amazing Github repos from a pool of usernames. github.com/mubaris/curiosity/commits?author=maiquynhtruong
- **Mozilla:** Implemented language-agnostic links that redirect to the translate view in preferred locale for the Pontoon project. https://bugzilla.mozilla.org/show_bug.cgi?id=1424845

TALKS AND BLOG POSTS

Cincinnati Android Developers / GDG Cincinnati Meetup - Mason, OH

July 2018

- Gave a talk on '**How to get started with Actions on Google applications**' to about 20 software engineers.
- Wrote two posts on Atomic Robot's Medium page: <https://medium.com/@maiquynhtruong>

LANGUAGES AND TECHNOLOGIES

- Technologies: Kotlin, Java, C and C++, Python, Javascript, HTML, CSS, SQL.
- Development experience on on Unix and MacOS.
- Intermediate knowledge of LLVM and compiler frontend.