

Linh TT Tran

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EDUCATION

Bryn Mawr College

Expected graduate May 2023

B.A. in Computer Science, GPA: 3.9

PA, USA

Relevant Coursework: Internet & Web Systems, OS, Analysis of Algorithm, System Programming, Database & Info. Systems, OOP in Java, Software Engineer, Computer Organization, Cybersecurity, Data Structures, AI, Linear Algebra

TECHNICAL SKILLS

Languages: Java, C, JavaScript, SQL, TypeScript, Python

Technologies: Docker, AWS, Angular, Node.js, Express.js, Java Spring Boot, Google Protocol Buffers, MongoDB, Mongoose, Linux, React, HTML/CSS

EXPERIENCE

Software Engineering Intern

June 2022 – Aug. 2022

Morgan Stanley

New York City, NY

- Implemented new endpoints in the legacy code, using **Java Spring Boot**, in **4** middle-tier services to create a complete flow for receiving users' requests, querying data from database & sending data back to UI
- Created a well-formatted table with **HTML/CSS5**, providing critical data queried using new endpoints for **17,600+** users of the second most profitable business segment of the company
- Generated a table view, using **Angular & TypeScript**, as an alternative to the current linear view of data for better readability & user-friendliness; created a toggle button switching between 2 views
- Gained **full-stack** experience, worked through & debugged multiple different code bases together, communicated effectively with **7** other developers globally, presented project to **100+** people in the team

Software Engineering Intern

June 2021 – Aug. 2021

Di Chung Joint Stock Company

Hanoi, VN

- Detected a time-consuming issue, proposed a solution, then built, released a mobile **React Native** app as a solution, which automatically updates revenue report, efficiently saves Sales department **1 hour/day**
- Developed a full-stack web application with **5** colleagues, using **JavaScript, Node.js, Express.js, Socket.IO, MongoDB, and HTML/CSS**, which allows users to create an account, log-in/log-out, pair with each other via unique ID, count together-days, write diaries, and send real-time messages

Android University

Feb. 2021 – May 2021

CodePath.org

Remote

- Led a team of 3 to build Fake Caller app, which allows users to make fake calls to avoid dangerous situation, schedule fake incoming calls, and make a real call to 911 by utilizing **Back4App** effectively to manage database
- Acquired competent **Android app development** skill by building **5 Android apps** (including back-end & front-end), using **Java** and **Android Studio**
- Developed Instagram Clone app using Parse authentication with 4 main features: account creation, sign-up/sign-in, photo-taking, uploading new posts; Tweet app (used Twitter API) allowed logging-in to real Twitter accounts via OAuth login, composing new tweets...; Flixter app that allows browsing movies from the Movie Database API

PROJECTS

Mini Google | Java, AWS, Spark

Jan. 2023 – present

- Develop a mini search engine from scratch, including a basic HTTP/HTTPS server with routing and session management, as well as a distributed key-value store and analytics engine (Flame).
- Implement essential functionalities such as indexing, storage, and crawling to enable efficient search capabilities.

MyOperatingSystem | C, Docker

Aug. 2022 – Dec. 2022

- Program a feature-rich OS simulator with a preemptive priority scheduler, file system mount, pipes, redirection, foreground / background processes, job control, and asynchronous signal handling.
- Lead a team of 4; distribute work load evenly and ensure integrated code to function correctly

Path-finding Visualizer | JavaScript, Express.js, HTML/CSS

June 2021 – Aug. 2021

- Built a tool that visualizes the path-finding processes of different algorithms, generates animation of the shortest path found, and allows creating blocking walls between start and target nodes