

Ngo Vu Thanh Ha

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EDUCATION

Northeastern University, Boston, MA

B.S. in Computer Science and Cognitive Psychology

Dec 2023

GPA: 3.82/4.0 - IELTS: 7.5

TECHNICAL SKILLS

Languages: Typescript/Javascript, Java/Kotlin, Python

Frameworks/Libraries: React/React Native, NodeJS, MongoDB, Postgresql, Parse Backend, WatermelonDB, Docker, Git

WORK EXPERIENCE

Full-stack Software Engineer, Biosensics, Boston, USA

Feb 2024 - Jan 2025

- Developed *React* web applications within a monorepo workspace:

- + Built authentication flows, including **React Router**-based authentication, OAuth-based Google and Microsoft SSO, and a user creation system with token storage and expiration management
- + Implemented data visualization (custom tables/charts) with robust table functionalities such as sorting, filtering, and pagination using **React Query** and **TanStack Table**
- + Designed a solution to resolve timezone-related data inconsistencies, ensuring accuracy across different user locations

- Engineered backend solutions using *Parse*, including cloud functions, live queries, and cloud-hosted server management

- Automated deployment workflows, including *Docker* multi-stage builds for optimized app builds and merging coverage badges from pull requests into main branches

- Supported *Expo* application by integrating offline synchronization with **WatermelonDB** and creating Expo modules interacting with Mason APIs for faster developing experiences

Software Engineering Co-op, Biosensics, Boston, USA

May - August 2023

- Developed **multiple React Native** projects with **Typescript** and **Parse** Backend, introducing features such as:

- + Push notification systems via alarm manager and application deprovisioning in **Android SDK**
- + User creation flow with QR code, weather integration via API request to WeatherKit, and data CRUD operations

- Enhanced Databases performance by implementing server-side processing and optimizing backend queries, resulting in an **80%** reduction in execution time, even with a substantial database containing thousands of entries

Software Engineering Co-op, Best Buy Health, Boston, USA

July - Dec 2022

- Developed and resolved field app issues in Android applications with comprehensive test coverage, utilizing **VueJS** and **Java** for research initiatives focused on evaluating and mitigating fall risks in the elderly

- Played a pivotal role within an Agile team of seven members, actively participating in Sprint Planning and Review sessions to ensure the achievement of sprint objectives, ultimately **boosting team efficiency by 20%**

PROJECTS

[Rate My Co-ops App](#) | *React Native, Typescript, ExpressJS, PostgreSQL*

Sep 2023

- Designed and developed a **React Native** application linked to a **PostgreSQL** database via **ExpressJS**, enabling Northeastern students to exchange their co-op experiences and access valuable co-op insights within the school community

[Q-Game](#) | *Typescript, Jest*

Sep 2023

- Built a **large-scale distributed system** for a tile-based game Qwirkle between 2-4 players. Developed multiple game components and in-house players with strategies by employing standard design patterns and examining various design choices. Established a **TCP connection** between server and client through remote proxies to facilitate gameplay among players across the network

[Happy Eastie](#) | *React, Typescript, NextJS, MongoDB*

May 2023

- Built a customized React platform with **Typescript** and **NextJS**, integrating with a **MongoDB** database for efficient data handling, to empower underprivileged East Boston communities to find and apply for government aid programs efficiently