Minh Le

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Experience

VCAL TV — Westminster, CA
IT Associate — *Oct 2022 - May 2023*

- **Software Development**: Designed and developed an internal full stack app that help with inventory management. Built front-end using **React** and **Javascript**. Built back-end using **Node.Js** and **Express.Js**. Saved over **50 hours** in labor and an efficiency increase of **200%** in preparation and processing time during a one month trial run period. Implemented and integrated live streaming video feature on company website.
- **Database Management**: Setup a database system for over 300 products to be sold on website, live TV shows using **PostgreSQL** and MS Excel.
- **IT Management**: Managed and oversaw IT infrastructure for web, TV and radio live-streaming shows. Assisted with production related tasks.

Projects

Project Munch — *A responsive full stack web app for discovering unknown street food spots.*
Stack: React, Typescript, Tailwind CSS, ASP.NET Core, C#, EF Core, PostgreSQL, Redis

- Designed and developed using **TDD** practices. Implemented **Unit Tests** and **Integration Tests**.
- Integrated Mapbox third-party API for visualization.
- Implemented secure user authentication and authorization using JWT and Cookies with Backend-for-Frontend pattern.

Project Gaem — *A really simple game engine for really over-engineered simple games.*
Stack: C#

- Designed and developed a component-based game engine written in C# using the Monogame framework.
- Implemented a 2D Physics engine using Spatial Hashing for efficient collision detection and resolution.

Ploop — *A dynamic and interactive social art platform*
Stack: Node.Js, React, Typescript, PostgreSQL, Redux, Graphql, RabbitMQ, Docker

- Designed and developed a full-stack social media app that allows users to create drawings on a **HTML** canvas and transform them into time-lapse videos.
- Integrated **Redux RTK Query** for state management, API calls.
- Implemented a **Micro-services Architecture** that communicates through **RabbitMQ** with **GraphQL** for efficient data aggregation and real-time communication.
- Integrated Cloudflare cloud storage for storing blob data type.

Chexx — *An online multiplayer Chess variant game*
Stack: .NET Core, React, C#, Typescript, SignalR, Redis, PostgreSQL, EF Core

- Designed and developed an online multiplayer Gliński's hexagonal chess game.
- Integrated **SingaIR** for real time communication.

Education

University of California, Berkeley — *Berkeley, CA*
Physics
2021 – 2022

Orange Coast College — *Costa Mesa, CA*
Physics
2018 – 2021

Programming Skills

- **Languages**: Javascript/Typescript, C#, Python, SQL, NoSQL

- **Technologies/Frameworks**: Node.Js, Express.Js, React, ASP.NET Core, Blazor WASM, Redux RTK Query, Redis, GraphQL, EF Core, SignalR, RabbitMQ, Docker, REST API, Git

- **Databases**: PostgreSQL, Cloudflare, AWS S3, MongoDB