Minh Le

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EXPERIENCE

- **VCAL TV**   Westminster, CA
  IT Associate   *Oct 2022 - July 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 **$1000** in labor cost and an efficiency increase of **50%** 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

- **OGP App** — *A live games and scores mobile app.*
  Stack: React Native, Expo, Typescript
  - Designed and developed the frontend for a live games, tournaments, and scores display for a local gym.
  - Collaborated with social media and developer teams to design a useful and elegant UI/UX.
  - Built UI using **React Native** and **Typescript**
- **Chexx** — *A online multiplayer Chess variant game*
  Stack: .NET Core, React, C#, Typescript, SignalR, Redis, PostgreSQL
  - Designed and developed an online multiplayer Gliński's hexagonal chess game with an ELO system.
  - Built front-end using **React** and **Typescript**. Built back-end using **.NET Core** Web API using unit of work, repository, and decorator pattern.
  - Implemented logic for the hexagonal chess game from scratch using OOP principles.
  - Integrated **Redis** as a second database for caching, real time leader board and ELO retrieval.
  - Integrated **SingalR** for real time communication.
- **Ploop** — *A dynamic and interactive social art platform*
  Stack: Node.Js, React, Typescript, PostgreSQL, Redux, Graphql, RabbitMQ, Docker, AWS S3, Cloudflare
  - Designed and developed a full stack app that allows users to create drawings and then watch as their creations transform into a time-lapse video.
  - Built front-end using **React** and **Typescript**. Features built: a drawing app on a **HTML** canvas with pen, shape, bucket, undo, and redo tools, infinite scroll, lazy loading, multi-step form, modal as route, etc.
  - Integrated **Redux RTK Query** for managing states, API calls.
  - Built back-end using **Node.Js** and **Express.Js**. Implemented a **Microservices Architecture** with 8 **REST API** services, interacting through a message queue with **RabbitMQ** for a robust communication.
  - Implemented an API Gateway service using **Apollo GraphQL** for efficient data aggregation.
  - Designed and integrated **PostgreSQL** as database and **Cloudflare** with **AWS S3** as cloud storage.
  - Integrated **Docker** for ease of development and scalable deployment.

EDUCATION

- **University of California, Berkeley** — *Berkeley, CA*
  Physics - 3.7 GPA
                                                                            Aug. 2021 – May. 2022
- **Orange Coast College** — *Costa Mesa, CA*
  Physics - 3.9 GPA
                                                                            Aug. 2018 – May. 2021

PROGRAMMING SKILLS

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

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

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