

# Tony Ly

SOFTWARE ENGINEER · PHARMACIST

Seattle, Washington

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## Skills

JAVASCRIPT, NODE, REACT, JEST, MYSQL, POSTGRESQL, MONGODB/MONGOOSE, AWS/EC2, DOCKER, CIRCLECI, NEW RELIC

## Software Applications

### Elder-ly Fashion

frontend.com

A FRONTEND E-COMMERCE APPLICATION FOR USERS TO BROWSE AND PURCHASE APPAREL (FRONTEND)

- Implemented a React-based frontend that drives user engagement through dynamically-rendering user interfaces (UI) that are delightful to use
- Employed Axios to make HTTP requests to and from node.js with client-side protection against cross-site request forgeries (XSRF)
- Utilized CircleCI for continuous integration in agile development to ensure only properly functioning code is delivered to clients

### Tobrega API

systemdesign.com

A FULLY CLOUD-DEPLOYED BACKEND TO HOST AN E-COMMERCE APPLICATION (BACKEND)

- Improved PostgreSQL database query speeds by 1233% from 37000ms to 30ms by leveraging database indexing
- Deployed a load balancer via NGINX across three AWS EC2 instances to boost throughput by 58% from 1500 RPS to 2600 RPS
- Stress tested the backend application locally and remotely to achieve fastest performance to improve user experience

### FirstPass

firstpass.com

A FREE, OPEN-SOURCE PASSWORD MANAGER (FULLSTACK)

- Conceptualized and implemented a fullstack password manager application within a short turnaround timeframe
- Employed Password-Based Key Derivation Function 2 (PBKDF2) to hash passwords one-way to adhere to NIST password security standards
- Reinforced password security with additional hash with salt stored separately from the hashed password

### Blue Ocean

blueocean.com

A SOCIAL MEDIA PHOTO GALLERY DELIVERING MARKETING CONTENT AND SHOWCASING LARGE-SCALE EVENTS (FULLSTACK)

- Collaborated in a small team following agile methodology in order to integrate continuous improvement and to maximize team cohesiveness
- Served as co-architect overseeing the core decision-making over choosing tech stack for the product including frontend, backend, and database
- Built service infrastructure utilizing Docker containers, CircleCI, and deployed onto AWS/EC2 instances

## Work Experience

### Pharmacy Manager

Everett, Washington

READY MEDS PHARMACY

2019 - 2021

### Staff Pharmacist

Seattle, Washington

RITE AID CORPORATION

2017 - 2019

### Pharmacy Assistant; Pharmacist Intern

Redmond, Washington

TARGET CORPORATION

2007 - 2014

### Research Technician II

Seattle, Washington

UNIVERSITY OF WASHINGTON, SCHOOL OF PHARMACY, DEPT. OF PHARMACEUTICS

2010 - 2012

## Education

### Doctor of Pharmacy

Portland, Maine

UNIVERSITY OF NEW ENGLAND

2016

### Bachelor of Science, Microbiology

Seattle, Washington

UNIVERSITY OF WASHINGTON

2011