

Timothy Chu

Software Engineer

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SKILLS

Proficient: JavaScript, TypeScript, HTML, CSS, Node.js, Express, React, Redux, Git / GitHub, Chrome DevTools, Visual Studio Code

Familiar: PostgreSQL, Sequelize, MongoDB, Mongoose, SQL, Webpack, Babel, Mocha / Chai, Jasmine

Languages: English, Mandarin Chinese (conversational), Spanish (limited)

PROJECTS

Laboratory Protocol Calculator (Web App) — secondaryisolation.herokuapp.com

- Reduced human error and resource consumption in laboratory protocols by building a tool for calculating & organizing parameters in cell subset isolations.
- Leveraged back-end Passport.js authentication to restrict database access to laboratory members.
 - **Tech:** React, Express, Node.js, MongoDB, Mongoose, Heroku, JavaScript
 - **Code:** github.com/chutim/secondary-isolations

Crowdsourced Tours Directory (Hybrid App) — capstone-96611.firebaseio.com

- Collaboratively developed an app for user-designed tours in an Agile team of four.
- Tackled sign-up, login, and account management flows, incorporating front-end validation for username availability and password complexity.
- Spearheaded UI/UX design by implementing bookmarking functionality, toast notifications, and dynamic field validation; took lead on crafting overall aesthetics.
 - **Tech:** Ionic React / Capacitor, Firebase / Firestore (NoSQL), Google & Yelp APIs, native geolocation, TypeScript
 - **Code:** github.com/object-keys-twin/capstone-ionic

Ingredient Label Analyzer (Mobile App) — expo.io/@chutim/reading-glasses

- Rapidly developed an app over a 2-day solo hackathon for identifying hazardous additives in ingredient labels.
 - **Tech:** React Native / Expo, native camera, Google Cloud Vision & E-Additive APIs, JavaScript
 - **Code:** github.com/chutim/reading-glasses

E-Commerce Site (Web App)

- Built and deployed an online merchandise store in an Agile team of four.
- Implemented basic back-end security for RESTful API endpoints and set up database schema.
 - **Tech:** React, Redux, Express, Node.js, PostgreSQL, Sequelize, Heroku, JavaScript

EDUCATION

Fullstack Academy — New York, NY

Sept - Dec 2019

- Certificate — Full stack software engineering immersive

Stony Brook University — Stony Brook, NY

Aug 2010 - May 2015

- B.E. (3.55 GPA) / M.S. (3.78 GPA) — Biomedical engineering

EXPERIENCE

R&D Technician — **BioIVT** — Westbury, NY

Mar 2018 - Current

- Isolated peripheral blood mononuclear cells and other tissue-derived cell products. Took initiative to build web app to streamline daily work. Designated laboratory SOP editor.

Senior Technician — **BioIVT** — Westbury, NY

Apr 2017 - Mar 2018

- Processed customized orders of biological matrices produced from tissues. Hand-picked for inter-departmental 5S implementation team. Designated chemical storage specialist.

OTHER

Publication: Zhang D, Hu M, **Chu T**, Lin L, Wang J, Li X, Ke HZ, Qin YX. Sclerostin antibody prevented progressive bone loss in combined ovariectomized and concurrent functional disuse. *Bone*. 2016. doi: 10.1016/j.bone.2016.02.005. Epub.