

SKILLS

Proficient: JavaScript (ES6), TypeScript, HTML5, CSS3, Node.js, Express, React / Redux, PostgreSQL, Sequelize, MongoDB / Mongoose, Git, npm, Chrome DevTools

Familiar: SQL, Webpack, Babel, Mocha / Chai, Jasmine

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

PROJECTS

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

- Designed a tool for calculating / organizing parameters in cell isolation protocols, to replace a labor-intensive manual process and reduce human error & resource consumption.
- Implemented 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.
- Responsible for registration, login, and account management flows, incorporating front-end validation for username availability and password complexity.
- Spearheaded UI/UX design by implementing bookmarking functionality, rendering dynamic field validation, and shaping 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*

- Learned React Native over a 2-day solo hackathon to develop an app for analyzing food ingredient labels for potentially hazardous additives.
 - **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 — 2019

- Certificate (Full stack software engineering immersive program)

Stony Brook University — Stony Brook, NY — 2010-2015

- B.E. / M.S. (Biomedical Engineering)

WORK

R&D Technician, BioIVT — Westbury, NY — 2018 - Current

- Isolated peripheral blood mononuclear cells (PBMCs) and other blood- and tissue-derived cell products in a BSL-2 laboratory. Designated as laboratory SOP editor/drafter.

Senior Technician, BioIVT — Westbury, NY — 2017 - 2018

- Processed customized orders of biological matrices produced from tissues/fluids in a fast-paced BSL-2 production laboratory. Designated as chemical storage/documentation 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.