

# Timothy Chu

linkedin.com/in/chutim · github.com/chutim · chutim.github.io

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Williston Park, NY

## 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](https://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](https://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](https://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.