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.firebaseapp.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

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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.