

# Timothy Chu

Software Engineer

Williston Park, NY  
timchu92@gmail.com • 646-491-3223  
LinkedIn • GitHub • Portfolio

## SKILLS

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

**Familiar:** PostgreSQL, Sequelize, MongoDB, Mongoose, SQL, NoSQL, Webpack, Babel, Unit Testing

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

## PROJECTS

### Laboratory Protocol Calculator (Web App) — GitHub | Live

- Reduced human error and resource consumption in laboratory protocols by building a full stack tool for calculating & organizing parameters in cell subset isolations.
- Leveraged back-end Passport.js authentication, with bcrypt salting & hashing, to restrict database access to laboratory members.
  - **Tech:** React, Express, Node.js, MongoDB, Heroku, JavaScript

### Crowdsourced Tours Directory (Hybrid App) — GitHub | Live

- Collaboratively developed an app for user-designed tours in an Agile team of four.
- Tackled sign-up / login / account management, utilizing password and username front-end validation.
- Spearheaded UI/UX design by implementing bookmarking and toast notifications; took lead on designing overall aesthetics.
  - **Tech:** Ionic React / Capacitor, Firebase / Firestore, Google & Yelp APIs, geolocation, TypeScript

### Ingredient Label Analyzer (Mobile App) — GitHub | Live

- Rapidly developed an app over a 2-day solo hackathon for identifying hazardous additives in ingredient labels.
  - **Tech:** React Native / Expo, camera, Google Cloud Vision API, JavaScript

### E-Commerce Site (Web App)

- Built 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, Heroku, JavaScript

## EDUCATION

### Fullstack Academy — New York, NY

Sept - Dec 2019

- Internationally top-ranked full stack software engineering immersive program

### 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 specialist.

### 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.