Timothy Chu
Software Engineer

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LinkedIn • GitHub • Portfolio

SKILLS

Proficient: JavaScript, TypeScript, HTML, CSS, React, Redux, Node.js, Express, 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 waste by deploying a full stack tool for calculating & organizing parameters in blood 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, and by taking 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, tapping third-party APIs and parsing JSON payloads.
  - **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, fulfilling mock client requirements.
- 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

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.