

# Tae Young (Daniel) Lim

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## Education

### University of Houston

Houston, TX

B.S. COMPUTER SCIENCE AND BIOCHEMISTRY || MINOR: MATHEMATICS

CUMULATIVE GPA: 3.90/4.00

May 2023

- **Coursework:** Linear Algebra, Discrete Mathematics, Data Structures, Algorithms, Software Design, Machine Learning

## Experience

### Charles Schwab

Westlake, TX

PROJECT MANAGER INTERN

Jun. 2022 – Aug. 2022

### Baker Hughes - GE Company

Austin, TX

SOFTWARE ENGINEER INTERN

Jan. 2022 – Jun. 2022

### University of Houston Department of Computer Science

Houston, TX

PEER MENTOR: COSC 1306 (INTRODUCTION TO PROGRAMMING)

Jan. 2021 – May 2021

- Coordinated 3 weekly lab sessions, 1 hour per session, and created simple python quiz questions for students
- Mentored 10+ students individually and in group settings, increasing students' exam averages by at least ~10%
- Clarified most optimal quiz solutions by highlighting preferred of data structures and Big-O time complexities

### Sen Lab at The University of Houston

Houston, TX

COMPUTATIONAL BIOLOGY INTERN

May 2020 – Aug. 2020

- Publication under review by *Cell Reports* (impact factor of 9.423 as of 2020) - <http://dx.doi.org/10.2139/ssrn.3892450>
- Determined an unknown protein structure from an X-ray Crystallography electron density map
- Planned weekly lectures to 3 PhD students on utilizing the terminal and producing job and bash scripts

## Technical Projects

### SPYing The Market

DS/ML Python Libraries

ALGORITHMIC TRADING BOT

Feb. 2021 - Present

- Designing Long Short Term Memory-Recurrent Neural Network model to predict \$SPY prices
- Utilizing Robinhood/TD Ameritrade APIs to purchase and sell short-term \$SPY options contracts
- Incorporating price action (candle stick patterns) and technical indicators (RSI/MFI) to measure volatility

### Cheap Stop!

HTML, CSS, JS, PHP, SQL

FULL STACK WEB APPLICATION

Jun. 2021 - Jul. 2021

- Designed a clear front-end for clients to create profiles and request fuel rate price predictions
- Established a secure SQL database for customers' orders and personal information by sha-1 hashing
- Integrated a back-end system to associate the client-side, server-side, and the database with the LAMP stack

## Leadership Experience and Organizations

### Cougar Computer Science Club

Houston, TX

ACTIVE MEMBER

Fall 2019 - Present

- Promoted club's website and fund-raised to provide for future hackathons and social events
- Publicized the "CodeRED" Hackathon and contributed to increasing ~ 15% club registrants
- Engaged club members who were inexperienced programming by exposing them to tutoring and networking events

## Skills and Additional Information

- **Programming Languages:** Python, R, C++, Java, TypeScript, JavaScript, PHP
- **Databases:** MongoDB, Couchbase, PouchDB, SQL
- **Libraries/Technologies:** HTML, CSS, Node.js, Express.js, Angular.js, React.js, Linux, Ubuntu, Git, Docker
- **Foreign Languages:** Korean (fluent), French and Spanish (beginner)
- **Interests:** Investing, Trading, Reading, Enneagrams, Teaching, Music, Sports, Foreign Languages, Technology
- **Work Eligibility:** Eligible to work in the U.S. with no restrictions