



Tye Phoenix

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EDUCATION

Massachusetts Institute of Technology

2026

Computer Science and AI Major (6-4) and Biology Minor (7)

GPA: 5.0/5.0

Coursework: Algorithms, Discrete Math, Linear Algebra, Inference

St. John Neumann Catholic High School

2023

GPA: 4.4/4.0

EXPERIENCE

MIT ChemE: Braatz Group at MIT

June 2024 - Current

Undergraduate Researcher

Cambridge, MA

- Formulated hundreds of simulations of bilinear chemical reactions, two-tank systems, and monoclonal antibody purification in the Julia language. My role on this team was as a computational scientist.
- Used control theory among other scientific concepts to model types of chemical, biological, and pharmaceutical equations in Julia to determine the parameters and states necessary for digital representation.
- Journal paper and two conference papers in work.

Phoenix Solutions, LLC

June 2024 - Current

Founder

Naples, FL

- Founder of software engineering group aimed at creating applications intersecting health, fitness, and technology.
- The group develops mobile applications in Dart (Flutter) and Typescript (React Native)
- Published one Android application. One application in funding round. Registered LLC.
- <https://phoenixsolve.com/> (GitHub: <https://github.com/Phoenix-Solutions-LLC/>)

Koch Institute: Sanchez-Rivera Laboratory

December 2023 - February 2024

Undergraduate Researcher

Cambridge, MA

- Worked in the Sanchez-Rivera laboratory that focused primarily on epithelial cell carcinoma.
- Showed that the 'EA' genetic knockout cell line grew without IL-3, suggesting the 'EA' knockout to be a cancerous gene by performing experiments on Ba/F3 dependent cancer cells.
- Mouse Trained, PPE Trained, Hazardous Laboratory Trained

Sole-Proprietor Software Engineer

August 2020 - June 2024

Software Engineer

Naples, FL

- Worked on passion projects, namely productivity applications, such as a desktop application to do OCR, screen-record, take screenshots, magnify displays. 3 published Windows applications on the Microsoft Store.

Stock Solutions

May 2023 - August 2023

Web Developer

Toms River, NJ

- Developed websites for a variety of companies including scientific research projects and businesses. Used HTML, CSS, and JavaScript for websites. SEO skills.
- Built application to create websites from tokenized templates using AI in Java.

Fort Myers Mighty Mussels

April 2022 - September 2022

Clubhouse Attendant

Fort Myers, FL

- Bat Boy for the Mighty Mussels, Twins Low-A Baseball Associate.
- Taught me values of organization and cooperation. Prepared food for the team, cleaned the locker rooms and uniforms for the players, and oversaw a smooth transition for visiting players and fans.

ACTIVITIES

StartLabs

September 2024 - Current

Premier entrepreneurship club at MIT.

- Teachings: Entrepreneurship, Passion, Microsoft Products

Boston Children's Hospital: Associated Observer

June 2023 - Current

Volunteer for the Boston Children's Hospital in the gastroenterology department.

- Teachings: Patient Communications

Varsity Baseball

August 2023 - Current

Varsity baseball for MIT. Played baseball since 4 years old.

- Teachings: Responsibility, Leadership, Cooperation

Chi Phi Fraternity

August 2023 - Current

Beta Chapter at MIT.

TECHNICAL SKILLS AND INTERESTS

Languages: C++, Java, Python, Julia, HTML, CSS, Javascript, Typescript, Dart, Bootstrap, React, React Native, Flutter

Areas of Interest: Artificial Intelligence, Front-end Development, Computer Vision, Natural Language Processing, Computational Science