

# Brody Pen

[832-291-0297](tel:832-291-0297) | [penbrody@gmail.com](mailto:penbrody@gmail.com) | [linkedin.com/in/brodypen](https://www.linkedin.com/in/brodypen) | [github.com/brodypen](https://github.com/brodypen) | [brodypen.com](https://brodypen.com)

## EDUCATION

---

### University of Houston

*Bachelor of Science in Computer Science, Minor in Mathematics and Business*

GPA: 3.65/4.00

Houston, TX

*Expected: Dec 2024*

Relevant Coursework: Algorithms and Data Structures, Database Systems, Software Design, Operating Systems, Computer Networks

## TECHNICAL SKILLS

---

**Languages:** JavaScript, TypeScript, Python, HTML/CSS, C++, Java, SQL

**Frameworks:** React, Next.JS, Astro, TailwindCSS, Framer Motion, Jest

**Developer Tools:** Git, Supabase, VS Code, Linux, Vim

## EXPERIENCE

---

### CougarCS

*Web Development Team Lead*

Houston, TX

*August 2022 - Present*

- Leading a collaborative team of 8 developers with building a management web application.
- Teaching students modern trends and best practices in web development, Agile methodology, and Git workflow.
- Coordinating meetings and delegating tasks based on team members' strengths.

### ConocoPhillips Computer Science Learning Center

*Tutor*

Houston, TX

*August 2023 - Present*

- Facilitated tutoring sessions for over 50 students, encompassing basic programming through to Data Structures.
- Skilled at breaking down intricate problems into manageable steps, facilitating problem-solving and critical thinking skills.
- Proficiently identified and addressed learning gaps in students' comprehension, ensuring a comprehensive understanding of the subject matter.

## PROJECTS

---

### CougarCS Admin Portal | *React, TypeScript*

April 2023 - Present

- Created web application for officers to manage data of members in Supabase PostgreSQL database.
- Adopted reusable unit tests to ensure quality control resulting in better safety and reduction in bugs.
- Redesigned project type safety leading to better developer experience and safety.

### Socialverse | *React, TypeScript, Supabase*

June 2023

- Developed a type-safe CRUD app to add their favorite social content creators.
- Achieved type safety form input with TypeScript, Zod, and React-hook-form.
- Used tailwind CSS to create a modern responsive site.

### BetterPomodoro | *React, TypeScript, Supabase*

July 2023 - Present

- Developing a web application that allows users to record tasks, Pomodoro time, and share achievements.
- Authorizing users with Supabase Auth and used PostgreSQL RLS policy to manage users permission.

## AWARDS

---

### NASA HUNCH Finalist | *Python — Generic Ag Nano Lab*

May 2021

- Won Design and Prototype Finalist, chosen from a select group of 510 schools.
- Engineered a Raspberry Pi Zero W to record video and monitor temperature, pressure, and humidity.
- Integrated Twitter API to upload images and graphs after a set interval of time.