

# Jackson Hutton

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*Dates of Availability: July '25- Dec. '25*

## EDUCATION

Northeastern University, Boston, MA

Sep. 2023 - Present

Khoury College of Computer Sciences

Expected: May 2027

Candidate for a B.A. in Computer Science, Concentration in Systems; Minor in Chinese

GPA: 3.4/4.0

**Relevant Courses:** Fundamentals of Computer Science I & II, Discrete Structures, Physics I, Object Oriented Design

**Activities:** NEU Club Fencing Team, Climbing Club, Computer Science and Game Development Tutoring

## TECHNICAL SKILLS

- **Languages:** C, C++, x86 Assembly Language, Ruby/Rails, JavaScript, Python, SQL, Java
- **Developer Tools and Frameworks:** Linux, CMake, TensorFlow, Jupyter, Node, ReactJS, GCC, OpenAI APIs, Flux AI
- **Applications:** Vim, VSCode, Cursor, JetBrains IDEs, DBeaver, Dagster, Supabase, Midnight Commander

## EXPERIENCE

**Spreads.com** Python, JavaScript, ReactJS, Wordpress, AI Integration, APIs, Database Design

Pompano Beach, FL

*Lead Developer*

Nov. 2023 - Present

- Spearheaded the development of the sports betting startup, overseeing system architecture, tool selection, and integration of cutting-edge technologies.
- Built frontend initially in WordPress, later transitioned to React for enhanced scalability; utilized Python for backend to manage content, data, gen. AI tools, and API integrations efficiently.
- Utilized Python to integrate multiple Sportsbook API streams into a unified database and application. Transformed unstructured data from various sources into structured formats, enabling efficient processing and reliable downstream use.
- Established development best practices and coordinated a hybrid team to ensure scalability, reliability, and streamlined collaboration.

**The Gemstone Academy** JavaScript, Ruby on Rails, PostgreSQL, Database Design, DevOps

Parkland, FL

*Co-Founder/CEO, Head of Tutoring*

March 2021 – Present

- Started a local online tutoring service and multiple LLCs for K-8 students in South Florida, managing all aspects of the business.
- Designed and built multiple web applications to manage services and users, primarily using Ruby on Rails with PostgreSQL.
- Deployed and maintained applications in live production environments, ensuring high reliability and usability.
- Led development with a focus on scalability, user-friendly interfaces, backend architecture, database design, and user authentication.
- Hired and trained tutors while developing a robust curriculum tailored to student needs.

**Broward County Parks and Recreation** Team Leadership, Communication

Deerfield Beach, FL

*Student Lifeguard*

Feb. 2022 - July 2023

- Acquired certification in CPR and first aid, ensuring prompt and effective emergency response.
- Developed leadership skills, good communication, effectively monitored aquatic environments, managed safety protocols in high pressure situations to ensure safety of guests.

## PERSONAL PROJECTS

**Intel 8080 Emulator** x86 Assembly, C, GCC, Linux

July 2024

- Designed and implemented an Intel 8080 microprocessor emulator capable of running classic arcade games like Space Invaders.
- Developed using Assembly and C, showcasing a deep understanding of processor architecture and low-level programming.

**HybridOS (Ongoing)** x86 Assembly, C, GCC, Linux

Mar. 2022 - Present

- Building a personal operating system from scratch without relying on existing kernels.
- Starting from the bootloader, leveraging x86 Assembly and C to develop core functionality, emphasizing expertise in system architecture and problem-solving.

**Neurocraft** Java, Client/Server Side Networking, Game Design

Jan. 2024 - Feb. 2024

- Created a successful Minecraft mod using Java, focusing on advanced game design, server-side logic, and client-side optimization.
- Gained a following within the modding community, highlighting project management and community engagement abilities.

## INTERESTS

Piano/composing music, learning Chinese, horror media, Eastern literature, writing, tabletop RPGs