

# HAYES O'QUINN

✉ mhoquinn@icloud.com · 📞 210-510-9405 · in hayesoquinn · 🌐 hayesoq

## 🎓 EDUCATION

---

**University of Texas at San Antonio**, San Antonio, TX 2023 – Present

*B.S. in Computer Science*

GPA: 2.9 (CS: 3.0)

Concentrations: Software Engineering, Data Science

Graduation: May 2026

Relevant Coursework: Data Structures, Algorithms, Database Systems, Artificial Intelligence

## ⚙️ PROJECTS

---

**Chess Engine with Alpha-Beta Search** 2025

*Python* Individual Project

Implemented a chess engine using classical search and evaluation techniques.

- Developed negamax search with alpha-beta pruning
- Designed a custom evaluation function for material and positional scoring
- Benchmarked performance using centipawn loss against Stockfish chess engine

**Database-Driven Web Application** 2025

*PHP, MySQL, HTML/CSS* Web Application

Full-stack portfolio web application deployed on AWS with persistent storage and server-side input validation.

- Designed normalized relational database schema and implemented persistent data storage
- Implemented server-side validation and sanitization for user-submitted form data
- Integrated PHP backend with MySQL database and frontend UI
- Live site: hayesoquinn.com

**Machine Learning Classification Pipeline** 2025

*Python, scikit-learn, Pandas* Course Project

Applied supervised learning techniques to real-world datasets.

- Preprocessed and analyzed data using Pandas and NumPy
- Trained and evaluated classification models
- Compared model performance using accuracy and error metrics

## 👥 EXPERIENCE

---

**Server / Bartender**, Peggy's on the Green, Boerne, TX 2022 – 2025

*Customer Service* Part-Time

Worked while completing Computer Science degree.

- Worked 30+ hours per week in a high-volume, fast-paced environment
- Learned valuable communication, sales, and service skills

## 🔧 SKILLS

---

- Programming Languages: Python, C, SQL
- Databases: MySQL
- Libraries / Frameworks: NumPy, Pandas, scikit-learn, Matplotlib
- Tools: Git, Linux (Arch, Debian), Nginx