

Benjamin Truong

832-985-5804 | benjamintruong2001@gmail.com | github.com/bngei | benjamintruong.dev
linkedin.com/in/benjamin-truong-164861186/

Technical Skills

C++, Python, MySQL, PHP, JavaScript, HTML, CSS, R, RStudio, VSCode, PowerBI, Excel, Git, Github, Ubuntu, React Native

Professional Experience

Paycom | Irving, TX

Feb 2024 - Present

Software Developer

- Performed software development of a variety of projects ranging from industry-wide services to client-specific reports and other interfacing technologies.
- Partnered with technology professionals such as developers, quality assurance, and application support on software projects of all sizes.
- Collaborated with non-technical professionals such as customer support, clients, and vendors on software projects of all sizes.
- Tracked communications with client/vendor, being primary project contact for some projects as needed.

TRC Companies | Houston, TX

May 2023 - Aug 2023

Digital Intern

- Engineered **Python** scripts automating **Excel** data, ensuring efficient conversion into deliverable files, streamlining operations for SCADA-monitored systems.
- Leveraged **PowerBI** for insightful modeling of raw **Excel** data, enabling robust analysis and visualization for informed decision-making in SCADA-driven environments.
- Contributed to data integrity by identifying anomalies, inconsistencies, and errors in **Excel**, fortifying accuracy in SCADA-related datasets.

Projects

Medical Clinic Database Web Application

- Launched development of a comprehensive web-based medical clinic database application, hosted and maintained on **Microsoft Azure**, ensuring secure and reliable access for users.
- Designed and implemented a user-friendly front-end interface, leveraging **JavaScript**, **HTML**, and **CSS** to create an intuitive and visually appealing platform for seamless user interaction and navigation.
- Engineered back-end functionality using **PHP** and **MySQL**, integrating critical features such as user authentication, appointment scheduling, payment processing, and data management.

Artificial Intelligence Reinforced Learning

- Led **Python**-based AI project for dual-agent block transport. Integrated modules—Action, Agent, Environment, State, QTable, Reward, Policy—for optimized strategies, managing constraints via coded policies.
- Orchestrated **Python**-centric AI initiative for dual-agent block movement. Merged QTable, RewardFunction, PolicyModule, managing dynamic positions and environments, enhancing transportation efficiency.
- Directed **Python**-driven AI framework for collaborative block transfer. Leveraged Q-learning, SARSA via QTableModule, ValueFunction, crafting adaptable agent policies amid diverse constraints for optimized transportation.

Coding Simulator

- Developed "Coding Simulator," a dynamic clicking game utilizing **HTML**, **CSS**, and **JavaScript**. Demonstrated expertise in front-end development, focusing on user experience optimization and interface design.
- Integrated a public **REST API** to display data, fostering user engagement and adding a unique lighthearted distinctive layer into the gaming experience.
- Leveraged **HTML** and **CSS** skills to craft an intuitive and visually appealing game interface. Ensured a user-friendly design which enhanced user interaction and immersive gaming experience.

Education

University of Houston | Houston, TX

B.S. Computer Science | Math Minor | GPA: 3.75