

James Aubin
9422 Walnut Brook Court
Houston, TX 77040

281-871-9578
jaubin9422@gmail.com
jaubin.net

Work Experience

- **Boxer Property** Houston, TX
.NET Developer *Jan 2019 - Present*
 - Managed development and deployment of Central AI Connector web service
 - Developed .DLLs for consumption by Central AI Connector
 - Utilized web APIs from AWS to analyze likelihood of tenant defaults
 - Utilized Paycom's REST API to retrieve, organize, and update employee information
 - Wrote proof-of-concept Android/iOS app with Xamarin Forms
- **Boxer Property** Houston, TX
Software Development Intern *Summer 2016 / Summer 2017 / Summer 2018*
 - Streamlined air conditioning & coffee requests with custom Raspberry Pi desk station
 - Utilized C# and Amazon Web Services to write software for Raspberry Pi and Amazon Alexa devices

Education

- **Texas A&M University** College Station, TX
Bachelor of Science in Computer Engineering *Sep. 2014 - May. 2019*

Projects

- Intel 8080 CPU Emulator (C++)
 - Emulated an arcade game by interpreting and reimplementing Intel 8080 instructions
 - Rendered screen, handled input, and played sounds via SDL multimedia library
- Snake AI (C++)
 - Automated a game of snake using multiple shortest-path algorithms
 - Compared time & space complexity of different algorithms by logging statistics after each run
- Raycasting Engine (C++)
 - Developed pseudo-3D rendering engine using SDL
 - Engine rendered textured walls and world objects at 60 FPS
- Discord Bot (C#)
 - Wrote a Discord bot for personal server using Discord.NET API
 - Used modern C# features (dependency injection/IoC) to increase performance and organize codebase

Skills

- **Programming Languages**
 - **Proficient in:** C++, C#, Java
 - **Familiar with:** JavaScript, Python, C, Verilog, MATLAB/GNU Octave
- **Development Tools**
 - **Source Control:** Git/GitHub, TFS
 - **Editors/Environments:** Visual Studio, Vim, GDB, Bash
- **Electronics:** Experience with circuit design/fabrication, use of multimeters, probes, and oscilloscopes
- **Leadership:** Eagle Scout (BSA)