

**James Aubin**  
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## 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 - Dec. 2018*
  - GPA: 3.33

## 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 (interfaces, async) to increase performance and organize codebase

## Skills

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