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Adam Beckingham

EDUCATION

Thomas Moore Academy, Edmonton, AB — *Graduated 2019*

6/2013 - 6/2019, Centre 170 - suite 145 10403-172 st NW Edmonton, AB

- Math 30-1 and math 31
- Python programming essentials
- Spreadsheet data collection/visualization courses for Microsoft Excel

Metro Continuing Education, Edmonton, AB — *Completed 01/2020*

07/2019 - 01/2020 & 07/2021 - 01/2022 7835 76 Ave NW Edmonton, AB

- Physics 30-1. (Upgrading, completed)
- Math 30-1. (Upgrading, completed)

Certifications

- Responsive Web Design (completed 2022-03-18)
- Javascript Algorithms and Data Structures (completed 2023-04-16)
- Workplace Infection Training (completed 2021-09-13)
- WHMIS with GHS (completed 2021-09-13)
- Food Handler Certificate (2021/09/12 expiring 2026/09/11)

EXPERIENCE

Programming Languages

- Python (5 years)
- C (4 years)
- z80/ez80 assembly (4 years)
- fasmg macro assembler (4 years)
- JSON (2 years)
- C++ (1 year)
- C#
- Java
- JavaScript
- HTML
- CSS
- HLSL
- GLSL

Programming Related Skills

- Algorithms, algorithm design
- Code optimization
- Data compression methods
- Data structures
- Embedded systems development
- File system structures
- Git / Github
- Hardware emulation
- Image processing
- Implementation of [de]serialization methods
- Implementation of text and language processing
- Implementing from data sheets
- Low level programming
- Machine language design
- Programming language design
- Reading and interpreting raw data
- Reverse-engineering
- Strong understanding of digital logic
- Understandable code and comments
- Writing command line utilities

Software Skills

- Adobe Photoshop and alternatives
- Adobe Substance Painter and alternatives
- Blender
- Hex editors
- Jetbrains IntelliJ
- Jetbrains PyCharm
- Linux firewall configuration and port-forwarding
- Linux terminal
- Microsoft Office and alternatives
- Microsoft Visual Studio and alternatives/derivatives
- Misc. Image editing software
- Misc. Video editing/processing software
- OBS
- Remote desktop software
- SSH and SCP
- Unity
- Utilizing command-line utilities
- WSL2
- Windows CMD
- ffmpeg

GitHub Portfolio

- I have contributed thousands of hours into my projects on GitHub, which can be found at https://github.com/beckadamtheinventor.
- M3EC - Minecraft Multi-Mod Environment Compiler, a python script that generates Java code for Minecraft mods using a custom data generation language.
- symtree - a fast string-indexed dictionary data structure library, written in C.
- noti-ez80 - an open-source boot rom written in assembly, for use with a TI-84+CE emulator.
- BOS - an open-source OS for TI-CE calculators and emulators. The result of 3+ years of bare-metal ez80 programming, and aims for full compatibility with most existing community-developed software. I actively develop it to this day.

AWARDS

- Academic Achievement Award (2017, 2018, and 2019 academic years, Thomas Moore Academy Edmonton AB)

PERSONAL INTERESTS

- Low level programming
- Game design/development/programming
- Software design/development/programming
- 3D modeling
- Interactive media/storytelling

EXTERNAL LINKS

- LinkedIn: https://www.linkedin.com/in/adam-beckingham-b186a0228/
- GitHub: https://github.com/beckadamtheinventor
- Responsive Web Design Certificate: https://www.freecodecamp.org/certification/beckadam/responsive-web-design
- Javascript Algorithms and Data Structures Certificate: https://www.freecodecamp.org/certification/beckadam/javascript-algorithms-and-data-structures