

Andre Foreman

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EDUCATION:

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| Clarke Road Secondary School - Diploma | Class of 2015 |
| Fanshawe College – A.A. – Humanities | Class of 2017 |
| Fanshawe College – A.S. – Computer Programming and Analysis | Class of 2023 |

COURSEWORK & INTRESTS:

Philosophy, Computer Science, Psychology, Economics

TECHNICAL SKILLS:

Proficient: C++/C#/C, Python, JavaScript, Java, Html, CSS, Git, Api's, SQL, Linux, CLI, SQL, Excel, Nodejs, Node-Red, Flask, VM's, Bootstrap, React, Docker, COBOL, Cloud (Digital Ocean), Basic Video Editing, Writing, Data Analysis, Bash/Sh Scripts

Learning: Wolfram Language, Haskell, R, Go, Rust, Solidity, MATLAB, Assembly, Kubernetes

WORK EXPERIENCE:

Perimeter Institute for Theoretical Physics – *DevOps* (summer intern) 05/2022 to 09/2022

- Designed and implemented various projects that were used in production with the tools integrated with their infrastructure.
- Contributed to a complete wholesale upgrade of all of their server-side software.

A & L Laboratories – *Software Developer* (college co-op) 01/2022 to 4/2022

- Maintain and optimize the scripts that were engineered by previous developers.
- Implement new solutions to novel problems regarding connecting various pieces of software together for both better scalability, and maintainability.
- Automated various tasks that shrunk the manual workload by at least an order of magnitude or more.
- Directly reduced files with over 1300 lines of unintelligible code to sub 150 lines.

BetaDwarf Studios – *Software Quality Assurance* (summer intern) 04/2021 to 09/2021

- Troubleshoot bugs and error reports from clients, as well as bugs from other developers.
- Contributed to mobile revamp of entire game architecture, analysis of new UI implementation.

Wal-Mart – *General Sales Associate* 05/2020 to 09/2020

- Guide and assist customers in need of various products and services.
- Trained new associates to competence and assimilated them into the current workflow structures.
- Organized the new system of online ordering and distribution, into an efficient set of easily repeatable functions by our team.

Volleyball Canada – *Professional Athlete* 09/2017 to 04/2020

- Maintained an extremely rigorous schedule for many years to prepare for my time with the National Team.
- Familiar with the nuances of high leverage/pressure team dynamics.
- Exposed to many cultures and ways of life in my time travelling with the team.

Fowler Kennedy – *Physiotherapist* (intern) 06/2015 to 08/2015

- Wrote weekly performance reports with details about the current patch and upcoming ones.

LARGE PROJECTS:

Mansura (Personal) – A Social Media site with Custom Search Algorithms & Content Moderation

- Designed and implemented a Full stack Application (*Flask, Postgres, Digital Ocean, Bootstrap, React, and a number of libraries*)
- Built-in monetization, advertising, connected to PayPal
- Algorithms can be saved and sent to others for to be used and built upon.
- Other features: private messaging, SHA256 encrypted passwords, AI content moderation.

Kryptos (Sold) – Encrypted Peer-to-Peer File Sharing/Chat Room/Currency Exchange – Python

- Designed and implemented a system of peer-to-peer system of clients/servers that send and receive encrypted and data of any kind.
- Supports Symmetric & Asymmetric Cryptography.
- Can be made to support anonymous, pseudonymous financial transactions between parties running cryptocurrency nodes.

Gator – Command Line File System Analysis Tool – C++/C

- Tool for diagnostics and debugging programs/folders and anything with ASCII code.
- Designed to query a folder or file, and report various data requested from the user about said file.

Logos (Personal) – Financial Asset News Analysis Tool(s) – Python/JavaScript/Css/Html

- Implemented a social media & News Organization Sentiment analysis tool using modern data aggregation and organization techniques.
- Designed to scrape various sites for specific keywords related to a particular financial asset (designed for finance but anything can be queried in principle); then do an analysis based on certain user specified parameters and return various wanted data about said asset.

CQA/DQA (A & L Laboratories) – Data Aggregation & Regulation Tool – Python

- Designed to take in data from an agriculture firm, do a number of computations on their information, and send back information about whether they do or do not meet required parameters.
- Re-designed the codebase and decreased the complexity (by at least an order of magnitude), while keeping the functionality, and increasing the ease of debugging.

Black Hole Mosaic (Perimeter Institute) – Mosaic Generator and Sender – JavaScript/Node-Red

- After the recent announcement of the upgraded Black-Hole image, I was tasked with designing a structure that could receive a person's image, generate a mosaic with their image, and send it back to them via email.
- This had to be integrated with Perimeters User Authentication System, as well as email out the picture back on completion asynchronously.

SMALL PROJECTS:

- Machine Learning (Many Small Applications) – Python/PyTorch/TensorFlow/Scikit
- Sudoku Solver – C++
- Scientific Calculator – Java

AWARDS:

Lawson Literary Award

Fanshawe College Athletic Scholarship(s)

CERTIFICATIONS:

University of Colorado – *Computer Communications Specialization*

Google – *It Automation*

Google – *Data Analytics*

Meta – *Marketing Analytics Foundation*

Stanford – *Intro Machine Learning*

Purple – *Full-Stack Web Development*

Purple – *DevOps Server Management*

Purple – *NodeJS Master Class*