**Ryan McWhorter**

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**EDUCATION**

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| --- | --- | --- |
| **The University of Texas at Austin** | Bachelor of Business Administration, Quantitative Finance | May 2022 |
|  | Overall GPA: 3.0053  I have completed 105 credit hours, including 20 additional hours of upper division mathematics. |  |

**Projects and Research**

**Sigmoid Technologies** – *Co-founder;* Austin, TX  December 2019 – Present

*Pre-seed startup focusing on medical imaging*

* I partnered with my co-founder to design and build an app which allows on the fly diagnosis of chest x-rays.
* This included work with machine learning which entailed training convolutional neural networks as well as replicating established scientific work such as CheXNet.
* I also built a backend system on Firebase which includes the ability to authenticate users, upload images, and process image data (all done in Python).
* We also integrated and maintained a NoSQL database, allowing us to efficient serve both our iOS app and our automatic image processing services.
* We faced challenges including getting our ML models to run automatically in the cloud (via Google Cloud AI Platform and Google Cloud Function), and getting these models to run in a performant manner on constrained hardware.

**MAP (Medical Anesthesia Partners)** – *Administrative Assistant,* Plano, TXMarch 2017 – August 2018

* Preformed office work, mostly shredding, to insure HIPPA and HITECH compliance.
* Researched cryptographic and data storage solutions, to insure data security and redundancy.

Harvard, Goldman Sachs, financial analyst, strategy, buy-side, analysis, asset, CFA, client, equity, excel, investment, models, portfolio, research, review, valuation

**LEADERSHIP EXPERIENCE AND ACTIVITIES**

**Texas USIT** –*General Member*  Fall 2018 – Present

* Voted on various positions to take with USIT capital, alongside other general members.
* Attended secondary analyst group meetings, centered on learning financial fundamentals, e.g. GAAP accounting and using DCFs to value investments
* Participated in annual Analyst Group Stock Pitch

**Technical Qualifications**

**Programming and Development:**

* Fluent in Python and Rust, with a focus on performant data gathering and manipulation.
* I have varying degrees of exposure to R, MatLab, Bash, and SQL.
* I’ve developed applications on most operating systems, including Window, Linux (Ubuntu), and MacOS.
* I also have experience in machine learning, in particular in image classification.

**Mathematics:**

* My mathematical education includes probability, linear algebra, vector calculus, differential equations, and real analysis. This includes ongoing education in complex analysis and algebraic structures.
* In addition to standard curricular courses, I have some degree of familiarity with differential geometry and multilinear algebra.

**ADDITIONAL INFORMATION**

**Computer Skills:** MS Excel, Word, PowerPoint, GitHub (github.com/rmcwhorter), Python, NumPy, Pandas, Tensor Flow

**Interests:** Philosophy, Literature (Classical and Financial)

**Work Eligibility:** Eligible to work in the U.S. with no restrictions