Iyobed Zekarias

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Experience

Ernst and Young New York, NY

Data and Analytics Consultant

June 2022-Present

- o Created ADHOC reports and presented data to client and teammates on current business unit allocation process.
- o Implemented new accounting software at multi-billion-dollar company for better forecasting and presentation of revenue and cost center data allowing the client to better report financial data to shareholders.
- o Queried and presented data from systems and built actionable decision trees for client to take.
- o Worked with DataBricks to implement spark and data visualization with python.
- o Researched ML tools that could be used within the company and at clients to better improve workflows.

IT Risk Management Consultant

June 2021-June 2022

- o Queried servers to test controls then documented and visualized data efficiency and efficacy.
- o Tested controls in client database for allowance for doubtful accounts, revenue recognition, write offs, and more.
- o Created an automation tool that advanced old processes and saved multiple teams 100s of billable hours per year
- o Analyzed, understood, and documented movements of data from multiple servers to a central location

Core Civic Nashville, TN

IT Project Management Freelance

August 2020-December 2020

o Oversaw transition to new technologies that would be used by thousands of users.

Tractor Supply Company

Nashville, TN

Software Engineering (Columbia State Capstone Student)

August 2019 – October 2019

- o Developed Augmented Reality software demo to view large devices on mobile and saved the company \$50,000.
- o Created new and innovative products for customers to be used for data analysis.

External Projects

Portfolio (link) - React.js Vercel Javascript Python C++

- Used Nextjs (React framework) to create engaging pages that portray my biggest projects while adding API endpoints using python and C++
- o Leveraged caching and concurrent connections for better user performance, completed using WebSockets

Music Streaming App – ios SwiftUI, SQL

o Building a music streaming platform in Swift that implemented AVPlayer to allow unlimited streaming experience.

Wooping (link) - C++

- o Upgraded the Gnu Multiprocessing Unit Library to include wooping, a check for multiiprecision arithmetic.
- o Researched and implemented math behind checking process developed by Jurjen Bos in his paper *Practical Privacy*. Maintained 99.9% CPU clock speed when checking was turned on.

Cryptography (link) - C++

- o Created and Implemented multiple Cryptographic algorithms in C++ including AES, RSA, SHA, and others.
- Created my own multiprecision arithmetic library and implemented faster multiplication algorithms using Fast Fourier transformations and implemented concurrency.

Education

Lipscomb University Nashville, TN

Bachelor of Science

(Lipscomb, Columbia State Cumulative) GPA 3.85/4.00

Major: Computer Science

- o Swift, react native, Python, C/C++, React, HTML/CSS/JS, SQL, mongoDB, API development, and google firebase
- o Data Structures and Algorithms, Calculus 1 & 2, Multivariable Statistics, Linear Algebra, and Operating Systems

Minor: Accounting

Columbia State Community College (Transfer Pathway)

Nashville, TN

Major: Computer Science Graduating GPA 4.0/4.0