

# Iyobed Zekarias

T: (615) 545-2686. E: [iyobedzekarias@gmail.com](mailto:iyobedzekarias@gmail.com) W: [portfolio](#)

## Personal Project

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### Portfolio (link)

- Used Nextjs to create engaging pages that portray my biggest projects while adding API endpoints using python and C++
- Deployed using Heroku, Vercel, Google Domains, and Microsoft Azure

### Wooping (link)

- Upgraded the Gnu Multiprocessing Unit Library to include wooping, a check for multiiprecision arithmetic
- Researched and implemented math behind checking process developed by Jurjen Bos in his paper *Practical Privacy*

### Cryptography (link)

- 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

## Education

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### **Lipscomb University**

**Nashville, TN**

Bachelor of Science

Graduation May 2022

Major: Computer Science

(Lipscomb, Columbia State Cumulative) GPA 3.85/4.00

- Python, Java, C/C++, HTML/CSS/JS, react, react native, SQL, C#, mongoDB, API development, blockchain development, and google firebase
- 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

## Experience

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### **Ernst and Young**

**New York, NY**

Technology Consultant, Data and Analytics

June 2022-Present

- Digested and presented data to client and teammates on client's current business unit Allocation process
- Implemented new accounting software at client for better forecasting and presentation of financial data

**Nashville, TN**

Technology Risk Management

June 2021-August 2021

- Tested controls in client IT systems for allowance for doubtful accounts, revenue recognition, write offs, and more
- Created an automation tool that revitalized stagnant processes and identified key areas for innovation
- Analyzed, understood, and documented movements of data from multiple servers to a central location

### **Core Civic**

**Nashville, TN**

IT Project Management Internship

August 2020-December 2020

- Oversaw transition to new technologies and assisted users with compliance

### **Tractor Supply Company**

**Nashville, TN**

Intern (Columbia State Capstone Student Internship)

Summer 2019-Fall 2019

- Created new and innovative products for customers to be used for data collection and analytical purposes
- Co-led a customer counting software integration into stores which was used for data collection to determine stores' conversion rates and customers per day
- Researched and presented new technologies for implementation in stores

### **Affinity Technology Company**

**Nashville, TN**

Computer Technician Apprentice

June 2017-August 2019