# KENECHUKWU MADUABUM

Columbia, Missouri 65201

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## EDUCATION

**University of Missouri** — **Expected: May 2026**
*Bachelor of Science in Computer Science, GPA - 4.0* — *Columbia, Missouri*
- **Relevant Coursework**: Design and Analysis of Algorithms I, Advanced Algorithm Design, Database Applications and Information Systems, Object Oriented Programming, Computer Organization and Assembly Language, Calculus II - III, Python 1
- **Honors**: High Deans List - College of Engineering (2023 - Present), Nonresident Transfer Award I (2023 - Present)

**University of Texas at Dallas** — **January 2022 - May 2023**
*Bachelor of Science in Software Engineering, GPA - 4.0* — *Richardson, Texas*
- **Relevant Coursework**: Discrete Math, Differential Calculus, Computer Science II, Intro to Computer Science, Macroeconomics, Programming Fundamentals
- **Honors**: Deans List - School of Engineering and Computer Science (2022 - 2023)

## TECHNICAL SKILLS

**Languages**: Java, C/C++, Python, SQL, JavaFX (Basic), HTML (Basic)
**Developer Tools**: Visual Studio, IntelliJ IDEA, MySQL, Python IDLE, Lucidchart, MS SSMS, OnlineGDB, Code::Blocks
**Technologies/Frameworks**: GitHub, MS Word, MS Excel, MS Powerpoint

## WORK EXPERIENCE

**Headstarter** — **July 2024 – Present**
*Software Engineering Fellow* — *Remote*
- Built 5+ AI apps and APIs using NextJS, OpenAI, Pinecone, StripeAPI with 98% accuracy as seen by 1000 users.
- Developed projects from design to deployment leading 4+ engineering fellows using MVC design patterns.
- Coached by Amazon, Bloomberg and Capital One engineers on Agile, CI/CD, Git and microservice patterns.

**University of Missouri** — **August 2023 – Present**
*Student Assistant*
- Collaborating closely with a team of 4 staff members to ensure orders were prepared accurately and promptly.
- Assisting 100+ students daily by resolving concerns, and providing a positive customer service experience.
- Conducting financial transactions and ensuring precision in cash handling within a fast–paced retail environment.

## PROJECTS

**Watchlist Management System** | *Python, SQL, MySQL, GitHub Link* — **February 2024 - Present**
- Implemented a Database Application for allowing multiple users to organize and track the anime they watch.
- Utilized the "tkinter" and "sv_ttk" packages of Python to implement a GUI for the application.
- In the future, I hope to expand upon many functionalities and use a more capable package to implement the GUI.

**Airline Reward System** | *Java, IntelliJ IDEA, GitHub Link* — **March 2023 - May 2023**
- Used classes, interfaces, and several object oriented techniques like inheritance, polymorphism, composition, etc. to simulate a tier based rewards program for an airline.
- Utilized hashmaps to retrieve, store, and disseminate passenger information in addition to analyzing which passengers are upgraded to higher tiers.

## RESEARCH EXPERIENCE

**University of Missouri, College of Engineering** — **February 2024 - May 2024**
*Research Assistant in Autonomic Computing* — *PI: Prof. Abdelnasser Ouda*
- Received a $1,500 grant from the College of Engineering to conduct independent research under the supervision of a faculty member.
- Analyzed the core principles of self-configuration in autonomic computing, focusing on its dynamic self-management to adapt to changing conditions and requirements.
- Wrote a 32 page research paper and presented my findings at the Spring 2024 Symposium.