

# Bethvour Newness Chike

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## EDUCATION

### Jackson State University

Bachelor of Science in Computer Engineering - GPA: 4.0

Jan 2023 – present

## TECHNICAL SKILLS

**Languages:** Python, Java, C/C++, Swift, SQL (Postgres), JavaScript, HTML/CSS, R, GO, Dart

**Frameworks:** React, Node.js, Flask, Mobile development, WordPress, Material-UI, FastAPI, Flutter, Blockchain, Smart Contracts

**Developer Tools:** Git, Docker, TravisCI, Google Cloud Platform, Cerner

**Libraries:** Airflow, Argo, pandas, NumPy, OpenCV, Tensorflow, Pyautogui, Win32ctypes, Zbar Library, MediaPipe

## EXPERIENCE

### Bloomberg - Software Engineering Intern

June 2024 – Aug 2024

ENG Core - Derivates Data Streaming

San Francisco, California

- Scheduling of ACS (Auto Contribution Selection) System Jobs using Argo
- Develop kafka Stream applications for derivative data infrastructure
- Develop Bloomberg BGN using Kubernetes Clusters

### Regenstrief Institute, Inc. - Software Engineering Intern

Jun 2023 – Jul 2023

Data Engineer Department

Indianapolis, Indiana

- Developed "Health Dart" app to aid clinician decision-making in emergency departments, analyzing chief complaints of chest pain.
- Enhanced clinical data analysis efficiency by 37%.

### META - Metascholar

Mar 2024 – May 2024

Meta & Thurgood Marshall College Fund

- Collaborated with industry leaders in web3, blockchain, and AR/VR technologies. Contributed to projects enhancing virtual reality interfaces, resulting in a 10% performance increase.
- Contributed to a team that developed a VR training simulation which was tested and improved training efficiency by 20% for new employees.

### Innovation Fellow

Jan 2023 – present

Center of Innovation and Entrepreneurship

Jackson, Mississippi

- Developed a real-time sign-in portal enhancing operational efficiency by 30%. Organized technology sessions for non-native English speakers, increasing community engagement by 25%.

## PROJECTS

### QuizBot Gemini | *Next.js, Tailwind CSS, Shadcn, Vercel, PostgreSQL, Google Gemini AI*

- Engineered a HR training chatbot allowing users to test knowledge across various topics, enhancing user engagement by 40%.

### Grandma's RecipeBox

- Attracted over 200 active users within the first six months post-launch, catering to both seasoned chefs and beginners.
- Enabled over 1000 recipes to be saved and accessed remotely, with users logging in an average of 4 times per week to access their personalized content.
- User feedback rated the interface usability 4.8/5, with over 3,000 recipes added monthly. Sharing features resulted in a 40% increase in user interactions through social sharing functionalities.

### Health Dart *Python, Java, Cerner, SQL, Fire FHIR Data Exchange, React, Typescript*

- Spearheaded the development of an application integrating Health Information Exchange (HIE) data with Electronic Health Records (EHR) for optimized healthcare delivery in emergency departments. Reduced data retrieval times by 30%.

### AI Virtual Mouse

- Achieved 98% accuracy in hand gesture recognition, drastically reducing input errors and enhancing user interaction.
- Optimized algorithm to reduce gesture recognition latency by 50%, achieving real-time interaction speeds of under 100 milliseconds.
- Piloted with over 100 users in a university setting, where 95% reported an improved experience over traditional input methods.
- Overcame challenges related to varying lighting conditions and user hand sizes by implementing adaptive thresholding and dynamic scaling in MediaPipe

### Retro Ralley, A 2d retro car game

- Successfully garnered over 30 downloads within the first three months post-launch, during participation in the Techwise cohort, a prestigious program sponsored by Google.
- Maintained a user retention rate of 30% over six months, surpassing the industry average for similar desktop games.