Faith Fru Nchang

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EDUCATION

University of Maryland, UMD, bachelor's in computer science   Expected Dec. 2026
Montgomery College, *A.A. in computer science; GPA: 4.0/4.0*   Expected Dec. 2024
Relevant coursework: C/C++ programming, Java programming, data structures and algorithms, data testing, discrete math, Calculus I & II, Linear Algebra, Python, SQL, Computer Systems (C), Software Engineering, OOP.

TECHNICAL SKILLS

Programming Languages: Python, C/C ++, Java, GO, C#, HTML/CSS, JavaScript, Kotlin, SQL, MatLab, PostgreSQL.
Libraries & Frameworks: Pandas, sci-kit-learn, PyTorch, TensorFlow, NumPy, Matplotlib, React, jQuery
Software/Tools: Jupyter Notebooks, Selenium, Git/GitHub, Eclipse, VS Code, Figma, PyCharm, Docker, Microsoft Suite.
Others: Windows, Linux, Agile, AWS, data science, Software QA & Testing, AI/ML, NLP, Backend Engineering.

PROFESSIONAL EXPERIENCE

Headstarter AI   **July 2024 – Present**
Software Engineering Fellow   **Remote**
- Engineering 5+ AI applications and APIs using **NextJS, ExpressJS, OpenAI, Pinecone**, and **Stripe API,** achieving **96% accuracy** across over 1,000 users.
- Spearheaded end-to-end project development from design to deployment, **leading** a team of 4+ engineering fellows with **MVC** design patterns.
- Mentored by senior engineers from Amazon, Blumberg, and Capital One on Agile methodologies, CI/CD pipelines, Git workflows, and Microsoft best practices.
- Designing and implementing a comprehensive travel application leveraging **ExpressJS, NodeJS, Google API, OpenAI**, and **PostgreSQL**, enhancing user experience and functionality.

UMBC   **Catonsville, MD**
Water Research Intern   **Jul.2024**
- Developed data visualization technologies to explore the complexities of water issues in Baltimore, creating a comprehensive digital story.
- Utilized **Python, Java, and Arduino** platforms to build a temperature and turbidity water sensor, achieving a 75% increase in contaminant detection.
- Collaborated with a multidisciplinary team to integrate **hardware** and **software** solutions for water quality monitoring.

SciTech2U   **Columbia Heights, DC**
Summer Camp/Computer Science Intern   *June 2024 – Present*
- Collaborated on curriculum development interconnecting computer science and biology, resulting in a 50% increase in program enrollment.
- Tutored high school and middle school students in biotechnology, leading to a 79% performance increase.

Olive Consulting   **Rockville, MD**
After School Coding Instructor   **Jan. 2024 – May 2024**
- Led coding classes for 50 students per session, utilizing **Python** for script coding and Scratch for block coding, fostering problem-solving skills and achieving a 75% increase in student performance.
- Coordinated a team of five instructors, cultivating a collaborative environment to nurture creativity, and implementing strategies that significantly enhanced student engagement and learning outcomes.

PROJECTS

Expense Ease App | Python | Twilio REST API | SQLite3 | Pandas | Matplotlib | PyQt5   **Jul. 2024 – present**
- Engineered a Python fintech app with encrypted data storage, real-time budget tracking, alerts, and dynamic visualizations, including automated CSV reports and Matplotlib for financial analysis.

Google Router Finder Simulator | Java   Nov. 2023
- Developed a network management application with shortest-path algorithms, similar to Google Maps.
- Applied SDLC methodologies for development, testing, and deployment to ensure robust functionality
- Conducted unit testing, validated the application, and deployed it on GitHub for version control and collaboration.

Organizations

Raptors Who Code, Montgomery College   Sept.2023 – present
- Collaborated on coding projects, enhancing proficiency in debugging, computer architecture, networks, performance optimization, and unit testing

Soft Skills

Management | Problem-solving | Critical Thinking | Collaboration | Effective Communication | Analytical skills | adaptability | Creativity | Attention to detail | Leadership | eager learner | Teamwork | self-motivated | multi-tasking | documentation | Research Skills| curious