Eric Asare

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EDUCATION

New York University Abu Dhabi (NYUAD), UAE   Sep 2020 – Dec 2024
Bachelor of Science in **Computer Science**, Minor: Interactive Media
GPA: 3.879/4.0

Honors: NYU Founders' Day Award

Relevant Coursework & Certificates: Calculus, Probability & Statistics, Software Engineering, Big Data Systems, Natural Language Processing; Calculus for Machine Learning (Coursera), Linear Algebra for Machine Learning (Coursera), Machine Learning with Python (LinkedIn Learning)

RESEARCH EXPERIENCE

Software Analysis and Developer Support (SANAD) Lab, NYUAD   Feb 2025 – Present
Junior Research Scientist (*PI: Dr. Sarah Nadi*)

– Conducted controlled AI-human collaboration studies, including participant recruitment, and data analysis, to evaluate how ChatGPT affects students' computational thinking skills.
– Performed large-scale empirical analyses of 76,327 versions across 11,021 Python libraries to investigate type annotation usage, applying quantitative and qualitative methods.
– Prepared and submitted a first-author manuscript to *Mining Software Repositories 2026* and co-authored papers for *LEARNER 2025* and *CHASE 2026*, strengthening skills in scientific writing.
– Maintaining the lab website and supporting media initiatives.

Center for Technology and Economic Development (CTED), NYUAD   May 2024 – Aug 2024
Research Assistant (*PI: Dr. Yaw Nyarko*)

– Researched third-party app payment methods for Ghanaian farmers; visualized regional app usage data in MATLAB.
– Tested farmers block-chain research software, and implemented app alerts to improve usability.
– Supported finance, fundraising, and website initiatives for Kumawu school, water and heritage projects.

Tile Size Selection Using Hill Climbing Algorithm, NYUAD   Sep 2023 – May 2024
Final Year Capstone (*PI: Dr. Riyadh Baghdadi*)

– Optimized MLIR compiler tile size selection using a hill climbing algorithm.
– Evaluated against benchmarks to identify optimal parameters.
– Documented and presented findings through report, poster, and oral sessions.

PUBLICATIONS

Asare, Eric, Riyadh Baghdadi, and Muhammad Shafique (2024). *Tile Size Selection Using a Hill-Climbing Algorithm*. NYU Abu Dhabi Capstone Archives. URL: https://eric-asare.github.io/website/papers/Capstone24.pdf.

Mahmoud, May, Eric Asare, Nourhan Sakr, and Sarah Nadi (2025). "A Friend or a Foe? Evaluating ChatGPT's Impact on Students' Computational Thinking Skills". In: *Proceedings of the International Workshop on evaLuation and assEssment in softwARe eNgineers' Education and tRaining (LEARNER 2025)*. URL: https://sanadlab.org/assets/pdf/MayLEARNER25.pdf.

Asare, Eric and Sarah Nadi (2026). "How Do Third-Party Python Libraries Use Type Annotations?" In: *Proceedings of the 23rd International Conference on Mining Software Repositories (MSR)*. To appear. URL: https://eric-asare.github.io/website/papers/MSR26.pdf.

Mahmoud, May, Eric Asare, Nisa Shahid, et al. (2026). "Fast and Fleeting: Evaluating ChatGPT's Impact on Students' Computational Thinking Skills". In: *Proceedings of the Cooperative and Human Aspects of Software Engineering (CHASE) 2026 Conference*. To appear. URL: https://eric-asare.github.io/website/papers/CHASE26.pdf.

Professional Experience

Software Engineering Intern, Qlub – Dubai   May 2023 – Aug 2023
– Integrated waiter and tender metrics into the Tevalis system, enabling data-driven insights for restaurant operations.
– Resolved live-restaurant issues alongside the SRE team, gaining hands-on software reliability engineering experience.
– Optimized order processing by identifying and eliminating bottlenecks.

Software Engineering Intern, Kehillah Global – Remote   Oct 2022 – Jan 2023
– Built backend for a financial app supporting the taxi business, with scalable RESTful APIs and relational database.
– Led tech stack selection and backend architecture design for financial projection and investment recommendation systems.
– Developed web crawlers to fetch real-time financial data, improving accuracy.
– Implemented a feature for clients to share investment pages via links and email.

Student Training in Engineering Program (STEP) Intern, Google – London   Jul 2022 – Sep 2022
– Co-developed a tool to automate bug triaging for a 6-engineer team, saving 3–4 hours weekly per engineer.
– Designed and implemented bug parsers, analyzers, and SQL queries to efficiently process reports.
– Strengthened Python skills through code reviews requiring at least two approvals per merge.

Technical Skills

Programming Languages:	Python, Java, C++, JavaScript
Machine Learning & Data Analysis:	Scikit-learn, Pandas, NumPy, Keras, Matplotlib, Seaborn
Web & Backend Development:	HTML, CSS, React, Flask, Django, APIs
Databases & Big Data:	MySQL, PostgreSQL, Apache Spark
Tools & Platforms:	Git, Docker, Linux, High Performance Computing (HPC)

Leadership Experience

Vice President, Abu Dhabi Christian Fellowship   Sep 2024 - Dec 2024
– Planned weekly events engaging 30+ attendees and fostering dialogue about the Christian faith.
– Supported members during life events, from celebrations to times of loss, fostering a caring community.
– Coordinated weekly transportation to ensure students can attend church services.

Treasurer, Abu Dhabi Christian Fellowship   May 2023 - May 2024
– Managed ∼3,000 AED budgets for two semesters and led the team in planning event meals.
– Handled accounting and tracked expenses, ensuring efficient use of funds and building trust for future university support.

Cofounder & Mentor, TechElevate   Jul 2022 - Present
– Co-founded an online community supporting African students in navigating internships and job recruitment.
– Mentored members through resume reviews, interview guides, and coding sessions, simulating real technical interviews.
– Grew the community to 900+ members, helping students across Africa, Europe, and North America secure opportunities at top companies including Google, Meta, Microsoft, Bloomberg, Amazon, and Barclays.

Events Coordinator, hackAD   Jan 2022 - May 2022
– Coordinated semester events bringing together tech enthusiasts at NYUAD for workshops, discussion panels and hackathons.

Community Engagement

Evangelical Community Church – Abu Dhabi   Ongoing
– **Connect Team (1–2x/Month):** Welcome new attendees, often newcomers to the city, and help them feel connected.
– **Children's Ministry Nursery (Monthly):** Serve preschoolers through reading, singing, and interactive play during Sunday school.
– **Hospitality Team (Monthly):** Support community gatherings and potlucks of 100+ attendees, assisting with setup, meal service, and cleanup.