

Ange Christa Dushime

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EDUCATION

University of Pennsylvania

August 2022 - Now

Candidate of Bachelor of Applied Science in Engineering

- Major: Computer Science
- Minor: French and Francophone Studies
- Expected Graduation: May 2026 | GPA: 3.69 / 4.0
- Relevant Coursework: Data Structures and Algorithms, Software Engineering, Databases, HCI, Agile Development, Big Data Analytics

SKILLS

- Programming: Java, JavaScript, C, C++, Python, R, SQL, CSS/HTML, OCaml,
- Frameworks & Tools: React, Node.js, FastAPI, Tailwind CSS, Figma, Cypress, Latex, Git
- Languages: English (fluent), French (fluent), Kirundi (fluent), Swahili (beginner)

RESEARCH EXPERIENCE

Network for Open Mobility Analysis and Data (NOMAD)

January 2025 - July 2025

Research Assistant

CSSLab at UPenn

- Built and maintained the NOMAD platform using React and Node.js, creating interfaces for a data catalog, literature repository, and researcher community space.
- Implemented metadata filtering and organize datasets for easy comparison based on parameters like size, coverage, and format.
- Developed clear documentation for new users to understand data structures and site functionality.
- Designed clean, scalable UIs and develop forum-style discussion and Q&A features to support research collaboration.

Deliberation-Emperica Platform

May 2024 - August 2024

SWE Research Intern

CSSLab at UPenn

- Developed React and Node.js interfaces for deliberation experiments, enhancing scalability and user engagement.
- Implemented Cypress tests, increasing platform reliability by 30%.
- Designed and conducts experiments on group deliberation to reduce polarization, contributing to advanced research in computational social science.
- Worked on team collaboration of 4 researchers, integrating feedback to enhance user experience and meet research needs.

WORK EXPERIENCE

HEXAKOMB

June 2023 - August 2023

Software Engineer Intern

- Developed and deployed a FastAPI and Python API with a team of 3 to digitize gym club operations.
- Redesigned endpoints using maps and 2D arrays, enhancing transparency for 28 contracts between partnered institutions and the gym club.

MultiMedia Services (MMS)

January 2023 - May 2024

Front Desk & IT Support Assistant

- Provided on-site technical and front-desk support for multimedia classrooms and departmental offices.
- Diagnosed and resolved issues with AV systems, projectors, and network-connected devices during live classes.

KAYKO APP

June 2022 - August 2022

Product & Project Management Intern

- Drafted a digital marketing strategy for a mobile app, boosting user acquisition and engagement by 76% for pre-launch beta users

PROJECTS

- **PennPortfolio** — *Senior Design Project, University of Pennsylvania* August 2025 - Present
Building an AI-powered student portfolio builder with QR/NFC “tap-to-share” features for student networking.
- **Course Website Redesign** — *HCI Class, University of Edinburgh* Fall 2024
Redesigned a course website in Figma to improve navigation, accessibility, and mobile usability.
- **International Student Forum** — *Software Design Class, University of Pennsylvania* Spring 2024
Developed a full-stack platform using React and Node.js to enhance engagement among international students.

LEADERSHIP AND VOLUNTEER EXPERIENCE

Sisters In Success Tech Workshop Leader	August 2019 - Present
Society of African Internationals at UPenn Director of Communications	September 2022 - August 2024
UPenn National Society of Black Engineers (NSBE) Mentor	September 2023 - May 2024

AWARDS

Penn Undergraduate Research Mentorship (PURM) Award’24
University of Pennsylvania Dean’s List’23
Presidential Award – First in National Examination’21