

Paul Adutwum

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EDUCATION

Bates College

Lewiston, Maine

Bachelor of Science in Physics and Mathematics GPA 3.96/4.0

Expected Graduation: May 2027

SKILLS

Technical: C++, Python, Java, Jupyter, Javascript, Visual Studio Code, GitHub, MATLAB, RStudio, CSS, HTML

WORK EXPERIENCE

Introduction to Computer Science and Software Development in Python at Bates College

Lewiston, Maine

Course Attached Tutor

Fall 2024 - Present

- Organize bi-weekly drop-in sessions for *Introduction to Computer Science*, guiding students in problem-solving through hands-on exercises
- Translate nuanced technical concepts into clear explanations to help students apply skills in scripting, testing, and debugging
- Grades students' projects

IT Help Desk at Bates College

Lewiston, Maine

Student Technology Assistant

Summer 2024 – Present

- Provide Tier 2 technical support for hardware, software, and network issues across the campus
- Lead hands-on training sessions for new student recruits and existing team members, focusing on technical proficiency, problem-solving techniques, and effective troubleshooting skills
- Developed user-centric documentation and troubleshooting guides, including FAQs and step-by-step workflows, improve service resolution and response time

Department of Mathematics at Bates College

Lewiston, Maine

Research Assistant

Summer 2024

- Utilized Java's LinkedList and arrays, to manage large dynamic sequences, enabling efficient access, insertion, and uniqueness checks for Ulam sequence terms
- Achieved computation of up to a billion Ulam sequence terms in under a minute using Java
- Enhanced memory efficiency using Java's garbage collection
- **Publication:** Preprint of findings available on [arXiv:2410.01217](https://arxiv.org/abs/2410.01217)

PROJECTS

Web Developer

Lewiston, Maine

<https://akobealthfoundation.com/>

Summer 2024

- Developed a dynamic and user-friendly website focused on raising awareness about Chronic Non-Communicable Diseases, including diabetes, hypertension, and stroke in Ghana.

Library Management App

Lewiston, Maine

[Library Management Application](#)

Spring 2024

- Developed core functions allowing users to add, borrow, return, search and track books in the library using python data structures

Skywalker: 2D Platformer Game developed with Pygame

Lewiston, Maine

[Skywalker: 2D Platformer Game](#)

Winter 2023 – Winter 2024

- Implemented core gameplay mechanics, including player movement, jumping, collectible items, and collision detection
- Designed background scrolling and frame rate control to enable responsive gameplay and efficient game record storage

HONORS & ACTIVITIES

Honors: Dana Scholar 2027, Dean's List 2023- 2024, Most Outstanding Community Engagement by a First Year Student 2024

Activities: American Mathematical Society, ColorStack, Bates Coding Club, Physics and Astronomy Club, Volleyball Club, Soccer Club, Aspirations Club, Bonner Racial Justice Fellow, Resident Advisor, Innovate Ghana Tech Crew, Young Achievers Foundation of Ghana