

Paul Adutwum

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EDUCATION

Bates College - Lewiston, ME - B.S. Computer Science and Physics, GPA 3.95/4.0 Graduating May, 2027

Relevant Coursework: Object-Oriented Programming, Data Structures & Algorithms, Web Development, Discrete Structures, Intro to Machine Learning, Operating Systems, Multivariable Calculus, Electronics

Awards: 1st Place - ASA DataFest Hackathon 2025, Dana Scholar, Dean's List (All semesters)

TECHNICAL SKILLS & TOOLS

- Programming Languages:** Python, C++, Java, JavaScript, SQL, Go, Typescript, HTML & CSS
- Frameworks:** Flask, React.js, Next.js, Django, AngularJs, TensorFlow, PyTorch, Pandas, NumPy, Scikit-learn, SQLAlchemy, Prisma, PostgreSQL, Docker, Git, Figma, Agile, CI/CD, AWS, Firebase, Prometheus

EXPERIENCE

American Statistical Association

February 2025 – March 2025

Data Analyst

Waterville, Maine

- Developed a **Random Forest classifier** using Python (**scikit-learn**) on a **100K+** record commercial leasing dataset, achieving **89%** accuracy and cutting false positives through threshold optimization and cross-validation.
- Cleaned and normalized data with **Pandas/NumPy**, removing **12,000+** missing records to ensure accurate model predictions.

Npontu Technologies

May 2024 – August 2024

Software Engineering Intern - Database API Team

Remote

- Developed a Python **REST API (Flask)** for **CRUD** operations on a **SQLite** database, boosting data ingestion efficiency by 80%
- Automated data ingestion with Python scripts (**Pandas, SQLAlchemy**), processing **1,500+** records/hour and saving 50 days of manual work.
- Implemented data validation pipelines with Python, Pandas, and SQLAlchemy **ORM**, resolving **450+** inconsistencies to ensure **100%** data integrity.

PROJECTS

Lumeo AI

React | Pinecone | PostgreSQL | Firebase | DALL.E3 | Docker | AWS | Git

[View Project](#)

- Built an AI powered companion** with memory augmentation and sentiment analysis to deliver anonymous, real-time emotional support.
- Integrated YouTube API with **vector search** and **Redis caching**, cutting latency **60%** and delivering **8K+** personalized media suggestions monthly.

Global Tariff War Dashboard

Next.js | FastAPI | Scikit-learn | PostgreSQL | Docker | Prometheus

[View Project](#)

- Built a Next.js/FastAPI dashboard to track WTO/USTR tariff trends, sector impacts, and news across 50+ countries at 99% uptime.
- Integrated a **Random Forest** forecasting model (scikit-learn) and **TensorFlow NLP** summarizer to generate **1K+** daily tariff trend analyses and sector impact predictions.

Bobcat Express Shuttle Dashboard

Next.js | Prisma / PostgreSQL | Firebase | Google Maps API

[View Project](#)

- Designed a **campus shuttle dashboard** using Next.js, HTML, and Firebase to streamline ride requests and track locations—reducing student wait times by **30%** and boosting campus safety.
- Implemented Next.js lazy loading and **Zustand** for **state management**, trimming bundle size by **35%** and halving page load times to enable instant, real-time shuttle booking and map interactions.

LEADERSHIP & CAMPUS INVOLVEMENT

ColorStack Bates College - Campus Ambassador

- Founded a local chapter supporting Black and Latinx CS students; grew to 30+ members in one semester and led mentorship and technical interview prep sessions.

Bates Coding Club - Co-founder

- Launched weekly peer programming workshops and study groups, helping 100% of participants achieve A-level grades in core CS courses.

Accepted into the following highly selective, all-expense paid enrichment programs:

LinkedIn [In]spire Day'25, Liberty Mutual Unite Summit, Hudson River Trading Inside HRT