

# ABOAGYE NYAMEKEH PRINCE

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## EDUCATION

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**University of Connecticut – Storrs, CT**

Graduating May 2028

**Major: Computer Science and Engineering**

**Relevant Coursework:** Calculus I , Intro to Computing for Engineers, AI in Research and Writing, Microeconomics (Fall 2024)

## WORK EXPERIENCE

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**HEADSTARTER AI** –Software Engineering Fellow, Remote

(July 2024 – Sep 2024)

- Built 5+ AI-powered web apps using NextJS, OpenAI, Pinecone, and StripeAPI for 1,000+ users.
- Applied Agile practices and full-stack development skills learned from Amazon, Bloomberg, and Capital One engineers to deliver 3 projects ahead of schedule.

**The CKODON Foundation** – *Software Engineer Intern* , Ghana.

Aug 2021 - Present

- Developed responsive UIs using React for a college application platform, reducing form completion by 25% and enhancing user experience for 1,000+ applicants.
- Integrated REST APIs, reducing load times by 30%, and collaborated with the UX team to improve submission rates by 15%.

**University of Connecticut** – *Research Assistant* , USA.

Jan 2020 - June 2020

- Built Python pipelines using NumPy and Pandas for analyzing 10TB+ large genomic datasets, cutting processing times by 20% and enabling faster research outcomes.
- Co-authored 2 peer-reviewed papers on gene expression analysis, contributing novel algorithms that improved prediction accuracy by 15% in computational biology research.

## PROJECTS

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### Password Manager

- Developed a secure password manager for 50+ users using AES-256 encryption with SQLite storage and Tkinter GUI.
- Implemented automated password generation and validation algorithms, increasing password strength by 40% and reducing user input time by 30%.

### Lacoustre Banking Platform

- Architected a multi-account banking platform using Flask and REST APIs, handling 1000+ daily transactions with 99.99% accuracy across 5 major banks.
- Implemented OAuth2 authentication and AES encryption, reducing security vulnerabilities by 95% and ensuring GDPR-compliant data privacy for 10,000+ users.

### Tournament Scoring System

- Developed an automated scoring system for 50+ gaming tournaments, supporting real-time updates on scores and rankings.
- Engineered a scalable backend using Django and PostgreSQL, efficiently managing data for 500+ players and reducing query times by 40%.

### To-Do List Manager - Python

- Developed a Python-based task management app with SQLite backend, enabling 200+ UConn students to efficiently track 300+ academic activities and deadlines.
- Integrated Google Calendar API for task synchronization, with real-time notifications and dynamic sorting, resulting in a 35% increase in user productivity.

## SKILLS

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- **Programming languages:** Python, Java, JavaScript, C++, HTML
- **Frameworks and Tools:** Flask, ReactJS, Django, Git, Docker, Sentry.io, Slack, NextJS, OpenAI, VS Code, Pycharm, IntelliJ