

AYAN DAS

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EDUCATION

City College of New York

Bachelors of Science in Computer Science

GPA: 3.5 / 4.0

Relevant Classes: Operating Systems, Database Management Systems, Software Engineering, Data Structure and Algorithms

Scholarships & Awards: National Society of Collegiate Scholars, SAME Scholarship

New York City, New York

May 2025

TECHNICAL SKILLS

- **Languages:** Java/Kotlin, Swift, C/C++/C#, Python, Kotlin, Dart, HTML5, JavaScript/Typescript, CSS, SQL, Assembly
- **Frameworks:** React/React-native/Next.js, MongoDB, Express, Node.js, Flutter, Next.js, Nest.js, Flask, FastAPI, Prisma, PostgreSQL
- **AI:** Pytorch, Pandas, NumPy, Sickit-Learn, TensorFlow.js/Torch.js, Langchain/Pinecone, OpenAI, HuggingFace

EXPERIENCE

LaGuardia Community College

Data Science Research Intern

Remote

May 2022 – August 2022

- Conducted in-depth research and development of machine learning models utilizing SVM, PCA, and KNN Algorithms.
- Engaged in collaborative remote data preprocessing using Pandas and detailed visualization of model performance with matplotlib.
- Successfully achieved high accuracy in model predictions and synthesized findings into a comprehensive research report.

Develop For Good

Software Engineer Intern

Remote

October 2023 – February 2024

- Engaged in the development of a Flutter application designed as a standardized curriculum guide for educators in Kenya, enhancing the educational experience for middle school students. The app's UI follows the Figma design template meticulously.
- Implementing a robust backend infrastructure on AWS for efficient database management, supporting diverse functionalities such as student attendance tracking, agenda management, and role-based access control for Mentors and Teachers, offline access and backward compatibility of android devices.

PROJECTS

Scholarly Llama ([Demo](#))

January 2024

[Next.js, Supabase, Pinecone/Langchain]

- Pioneered an innovative LLMS, transforming textbooks into interactive models to enhance educational accessibility.
- Expertly integrated Langchain and Pinecone for textbook processing, creating a responsive, chat-based learning interface. Additionally, developed a feature for generating multiple choice tests to enable users to evaluate their understanding and receive instant feedback.

Mini Twitter ([Demo](#))

December 2023

[MongoDB, JavaScript, React.js]

- Developed a capstone project as part of a software engineering course, creating a modified Twitter clone with distinctive user roles: guest, ordinary, corporate, and admin.
- Implemented a MongoDB database, Express.js backend, and React.js frontend with React Bootstrap for a seamless user experience.
- Integrated user authentication with passport.js, offering multiple sign-in options including Google and Github, and providing a unique signup flow for Corporate vs Ordinary users with respective usage restrictions.

VOLUNTEERING AND LEADERSHIP

Beaver's Code Club CCNY (CSC)

November 2023 - Present

General administration member handling events, meetings, workshops, and biweekly forum inquiries.