

Alibi Nauanov

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EDUCATION

New York University Shanghai

Shanghai, China

Bachelor of Science in Computer Science

September 2021 - May 2025

- Relevant coursework: Software Engineering, Computer Architecture, Data Structures, Algorithms, Databases, Artificial Intelligence, Operating Systems, Information Visualization

EXPERIENCE

New York University Abu Dhabi, CITIES Lab

Abu Dhabi, UAE

Research Assistant

May 2024 - July 2024

- Built a dataset visualization tool using Next.js, Node.js & D3 to explore large graph-based datasets **2x faster**.
- Improved reliability with Docker Swarm, optimizing workflows, and reducing downtime **3x**.
- Fixed **10+** issues with Node.js, improving stability by **40%** by resolving bottlenecks and security flaws.

Research & Instructional Technology Services, NYU Shanghai

Shanghai, China

Software Engineer

September 2023 - December 2023

- Built an internal chatbot system for university staff to securely analyze documents without data leakage risks.
- Automated deployment processes using Docker and CI/CD pipelines, cutting errors by **20%**.
- Optimized backend with **Redis**, enhancing systems and boosting performance by **1.5x**.
- Conducted **7** user interviews to refine design features, increasing user satisfaction by **60%**.

Metana

Chicago, IL

Software Engineering Intern

July 2023 - August 2023

- Built a web-scraping and summarization API with FastAPI and PyTorch for content analysis.
- Redesigned backend API for scalability and reliability, adding error handling to reduce crashes by **45%**.
- Improved system latency by leveraging distributed data storage techniques, cutting processing time by **40%**.

Shoptaki

New York, NY

Front-End Development & UI/UX Design Intern

September 2022 - July 2023

- Developed a biometric data storage website using React.js and Redux, attracting **1,000+** users within **2** months.
- Implemented responsive design and optimized performance, ensuring scalability during peak traffic.
- Integrated biometric authentication APIs, reducing authentication failures by **25%**.

PROJECTS

Bitcoin Price Prediction with Sentiment Analysis | TensorFlow, LSTM, Random Forest

[GitHub](#)

- Built sentiment-integrated model (VADER, TextBlob, BERT) with **78%** accuracy predicting price movements.
- Analyzed **285K+** tweets and market data using feature engineering and ML to capture sentiment trends.
- Developed an LSTM-based forecasting pipeline for robust cryptocurrency trend prediction in volatile markets.

X(Twitter) Clone | Next.js, MySQL, Docker, Prisma, Socket.io, TanStack Query

[GitHub](#)

- Built a full-stack Twitter clone with real-time notifications, infinite scrolling, and live feed updates.
- Integrated Clerk OAuth (Google/Apple), webhooks, and ImageKit CDN for secure auth and media optimization.
- Implemented post, comment, like, follow, and profile editing features with React Query and optimistic UI.

Movix | React.js, Redux, SCSS, API

[Vercel - Deployed App](#)

- Designed a fault-tolerant API for a movie database, supporting high user loads with optimized state management.
- Reduced API response times by **60%** through efficient Redux state management and streamlined API calls.
- Improved load times and user experience by building modular, reusable React.js components.

TECHNICAL SKILLS

Programming Languages

Python, Java, JavaScript, TypeScript, C, MySQL

Machine Learning and Big Data

PyTorch, Scikit-learn, Pandas, Sentimental Analysis (LSTM, CNN)

Frameworks and Libraries

React.js, Node.js, Express.js, JSON, Next.js, Spring, Django, FastAPI

Developer Tools

Git, Linux, Docker, Kubernetes, MongoDB, Firebase, Figma, AWS

AWARDS

- NYUAD Quantum Computing Hackathon 2025 - **Top 2, top 12%** out of 17 teams, 207 participants.
- AIESEC FinTech Case Competition 2022 - **Top 1** among 20 teams