

# 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

## 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

## 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](#)

- Developed a predictive model integrating sentiment analysis tools (VADER, TextBlob, BERT) with financial metrics, achieving a **78%** accuracy in forecasting Bitcoin price movements.
- Analyzed **285,000+** tweets and Bitcoin market data using advanced feature engineering and ensemble machine learning techniques to capture sentiment-driven market dynamics.
- Implemented a time-series forecasting pipeline using LSTM, enhancing model robustness and accuracy in predicting cryptocurrency trends in highly volatile markets.

### ChatGPT for NYU Shanghai Library Staff | React.js, Node.js, Docker, MySQL

[rits.hosting.nyu.edu](#)

- Architected a scalable backend system with Docker and Node.js to support concurrent users efficiently.
- Enhanced reliability through rigorous unit and integration testing, reducing crash rates by **22%**.
- Integrated Claude API to cut deployment times from 30 minutes to 17 minutes, improving system performance and stability for **37%** more concurrent users.

### 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.