Deep Shah

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SUMMARY

Sophomore Computer Science student at NJIT with a passion for full-stack development and building scalable, user-friendly applications. Skilled in modern frameworks like React.js, Next.js, and Node.js, with experience in cloud deployment and API integration.

EDUCATION

New Jersey Institute of Technology, Newark, NJ   May 2027

*B.S. in Computer Science (**Dean's List** — Fall 2023, Spring 2024)*

Coursework: Data Structures and Algorithms, Linear Algebra, Database Design and Management, Probability and Statistics, E-Commerce Technology, Linux Programming.

SKILLS

Languages Javascript, Typescript, Python, Java, HTML, CSS, C, C++
Frameworks: Node.JS, React.JS, Next.JS, Express.JS, NestJS, TailwindCSS
Databases: PostgreSQL, MySQL
Tools: Docker, Git. Firebase, Google Cloud

PROJECTS

YouTube Clone | *React.js, Next.js, Express.js, Firebase, Google Cloud, Docker, TypeScript*
- Developed a YouTube-inspired web application featuring video upload, processing, and streaming capabilities.
- Deployed containerized services with Docker on Google Cloud Run, optimizing resource allocation with serverless infrastructure. Designed and integrated a custom API for managing video metadata and status updates in Firestore.
- Built a backend video processing pipeline using Node.js and Google Cloud Functions to handle file uploads, format conversions, and storage on Google Cloud Storage. Integrated Firebase Authentication for user sign-in and personalized features.

Banking Application | *React.js, Next.js, TailwindCSS, Node.js, Plaid API, Appwrite, TypeScript, Dwolla*
- Created server-side logic with Node.js and Next.js, handling session management, data aggregation, and API calls. Collaborated on real-time system designs, enhancing functionality for data visualization and client-side updates.
- Engineered a dynamic and responsive user interface for a banking application using React.js. Incorporated Plaid for banking connections, Dwolla for real-time fund transfers, and custom-built RESTful endpoints for transaction management.
- Integrated custom server-side endpoints for transaction handling, including categorization and balance aggregation.

Real-time City Data Streaming Pipeline | *Kafka, Apache Spark*
- Developed multiple IoT data producers (vehicle, GPS, traffic, weather) to generate and stream data into Kafka.
- Utilized Apache Spark for real-time processing and structured streaming, resolving schema issues for efficient data transformation.
- Configured AWS services including S3, IAM, Glue, Athena, and Redshift to store, catalog, and query large-scale streaming data.

Weather Website | *HTML, CSS, JavaScript*
- Developed a full-featured weather forecast web app that allows users to search for real-time weather updates by city.
- Integrated OpenWeatherMap API for real-time weather data, including daily and weekly forecasts.

WORK EXPERIENCE

IT Lab Assistant   Sep 2024 - Present

North Hudson Community College, Union City, NJ
- Provided technical support, troubleshooting software and hardware issues for students and faculty.