Deep Shah

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SUMMARY

Junior Computer Science student at NJIT with hands-on experience building scalable full-stack web applications using React, Next.js, and Node/NestJS. Skilled in API development, cloud deployment (GCP, Firebase), and database design (PostgreSQL, MySQL). Proven ability to ship production-ready features, contribute to team projects, and learn new tools quickly.

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, MongoDB
Tools: Docker, Git. Firebase, Google Cloud, Postman

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.

Taskflow - Project Planning Tool | *React, NestJS, PostgreSQL, JWT*
- Developed secure user account features including registration, login, profile editing, and account deletion using RESTful APIs and JWT authentication. Integrated Axios to handle API communication between the frontend and backend efficiently and securely.
- Implemented backend logic in NestJS and TypeScript with modular service/controller architecture and JWT-based token verification for password resets. Designed a scalable PostgreSQL schema for managing users and project data, ensuring reliable and consistent database transactions.

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.