

Deep Shah

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SUMMARY

Software engineer passionate about building user-centric web applications, from video streaming platforms to project management tools. Proven track record of integrating complex APIs and delivering production-ready features using modern JavaScript frameworks.

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, SQL, HTML, CSS, C, C++

Frameworks: Node.JS, React.JS, Next.JS, Express.JS, NestJS, TailwindCSS

Libraries: Pandas, NumPy

Databases: PostgreSQL, MySQL, MongoDB

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

PROJECTS

YouTube Clone | *Next.JS, Express.JS, Firebase, Google Cloud, Docker, TypeScript*

- Built a full-stack YouTube-inspired platform supporting video uploads, transcoding (FFmpeg), and streaming, with a responsive Next.js frontend and secure Google Authentication for personalized access.
- Designed and deployed containerized microservices on Google Cloud Run, integrating Firestore for video metadata management and leveraging Pub/Sub + Cloud Functions for event-driven workflows, ensuring scalability and reliability.
- Implemented a serverless video processing pipeline with Cloud Storage and Node.js, automating format conversions and optimized storage for efficient distribution..

Trello Clone | *React.js, NestJS, TypeScript, PostgreSQL, TypeORM*

- Engineered a Trello like project management platform with intuitive inline editing for features and user stories, leveraging React.js + Chakra UI for a seamless, mobile-friendly user experience.
- Designed and deployed secure RESTful APIs in NestJS with JWT authentication and PostgreSQL persistence, enforcing granular access control and maintaining data integrity through robust TypeORM entity relationships and cascade rules.
- Developed a real-time state synchronization workflow where the backend returns updated project data post-edit, enabling instant frontend state refresh without page reloads.

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.

WORK EXPERIENCE

IT Support Technician

Sep 2024 - Dec 2024

North Hudson Community College, Union City, NJ

- Provided technical support, troubleshooting software and hardware issues for students and faculty.