

# Deep Shah

201-993-3468 | deepshah0206@gmail.com | [LinkedIn](#) | [Portfolio](#) | [Github](#)

## SUMMARY

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*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

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**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

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**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

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**YouTube Clone** | *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.

**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

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**IT Support Engineer**

Sep 2024 - Dec 2024

*North Hudson Community College, Union City, NJ*

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