

# Deep Shah

Mobile: 201-993-3468

Email: deepshah0206@gmail.com

LinkedIn: [linkedin.com/in/shahdeep2/](https://www.linkedin.com/in/shahdeep2/)

GitHub: [github.com/DeepShah123534](https://github.com/DeepShah123534)

Portfolio: [deepshah123534.github.io](https://deepshah123534.github.io)

## EDUCATION

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**New Jersey Institute of Technology, Newark, NJ**

May 2027

*Bachelor of Science in Computer Science*

*Courses: Data Structures and Algorithms, Databases, Linux Programming, Probability and Statistics, Linear Algebra*

## SKILLS & CERTIFICATIONS

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**Languages:** Javascript, Typescript, Python, Java, SQL, HTML/CSS, C, C++

**Frameworks:** Node JS, React JS, Jest, Next JS, Express JS, Nest JS, Tailwind CSS

**Databases:** PostgreSQL(TypeORM), MySQL, MongoDB(MongoDB Compass)

**Tools:** Docker, GIT(Github, Github Actions), Firebase, Google Cloud Services(Pub/Sub, Cloud Storage, Cloud Run)

**Certificate:** Azure Certified Data Scientist Associate Developer ( DP-100 ) (in progress)

## PROJECTS

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**Project Management Tool:** Personal Project

- Engineered a Trello-like project management platform with inline editing for user stories, leveraging **React JS**.
- Integrated backend using REST APIs with **Nest JS** and **TypeORM** connected to **PostgreSQL**.
- Secured the application with **JWT authentication** and **Nest JS Guards** for role-based authorization.
- Built a password reset workflow with **Nodemailer**.
- Configured end-to-end automated **Unit Tests with Jest** to ensure backend services.

**YouTube Clone:** Personal Project

- Created a web app with video upload, processing, and streaming using **Next.js** and **Google Cloud** services.
- Implemented backend with **Node.js** generating secure signed upload URLs and managing video data in **Firestore**.
- Integrated **Firebase Authentication (Google Sign-In)** to enable secure uploads.
- Containerized services with **Docker** and deployed on **Google Cloud Services**, using **Pub/Sub** to trigger processing on uploads, **Cloud Storage** for raw/processed videos, and **Cloud Run** for hosted containers.

**Banking Application:** Academic Project

- Developed a secure, full-stack digital banking application using **Next.js** and **Appwrite**, with **Server-Side Rendering(SSR) based authentication** and form validation via **React Hook Form** and **Zod**.
- Implemented **Plaid** for multi-bank account linking and **Dwolla** for secure fund transfers.
- Designed responsive dashboards using **TailwindCSS** and **Chart.js** to visualize real-time financial data like recent transactions, and bank-specific summaries.

**Data Streaming Pipeline:** Personal Project

- Developed a real-time data pipeline using IoT data from vehicles, GPS, traffic, and weather sources.
- Utilized **Apache Spark** for structured streaming, real-time processing, and handling schema transformations.
- Engineered **PySpark Structured Streaming** pipelines to consume **Kafka** topics, apply schema-based parsing, and perform event-time windowed aggregations.

## WORK EXPERIENCE

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**IT Support Technician**

Sep 2024 - Dec 2024

*Hudson Community College, North Hudson Campus, Union City, NJ*

- Assisted 10+ students and faculty member with technical support, troubleshooting, hardware and software issues for students and faculty.
- Supported system upgrades and routine maintenance to improve performance and minimize downtime.