Deep Shah

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EDUCATION

New Jersey Institute of Technology, Newark, NJ — May 2027
Bachelor of Science in Computer Science — *GPA: 3.0*
Courses: Database Design, Linux Programming, Statistics, Linear Algebra, Data Science, Networking, Data Structures and Algorithms

SKILLS & CERTIFICATIONS

Languages: JavaScript, SQL, Python, HTML/CSS, Java
Frameworks: Node JS, React JS, Jest, Next JS, Express JS, Nest JS, Tailwind CSS, Django, Spark
Databases: PostgreSQL(TypeORM), MySQL, MongoDB
Tools & Platforms: MS Office Suite, Git(GitHub, Github Actions), Docker, Google Cloud (Pub/Sub, Cloud Storage, Cloud Run), Firebase, Kafka
Certificate: Microsoft Azure Developer Associate AZ-204 (in progress)

PROJECTS

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 **NestJS Guards**, ensuring 100% protection across all critical API endpoints.
- Built a password reset workflow leveraging **Nodemailer** with custom email template.
- Configured end-to-end automated unit tests with **Jest**, validating over 95% of backend services.

AI Powered Document Chat App: Personal Project
- Developed a SaaS web application enabling users to upload and interact with PDF documents through an **AI-driven chat interface** using **LangChain**, **Pinecone**, and **OpenAI GPT** for context-aware responses.
- Built a **document processing pipeline** that converts text into embeddings for semantic search and retrieval-based QA, improving query response accuracy by **25%** and reducing retrieval latency by **40%**.
- Implemented **Clerk authentication** for secure user access and integrated **Stripe** for subscription-based monetization.
- Developed a responsive frontend using **Next.js**, **TypeScript**, and **TailwindCSS**, deployed on **Vercel** with **Firebase Firestore** managing metadata.

YouTube Clone: Personal Project
- Created a web app with video upload 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 sign-in and uploads.
- Containerized services with **Docker** and deployed on **Google Cloud**, using **Pub/Sub** to process 50+ video events per minute with sub-second latency, **Cloud Storage** to reliably handle 100+ MB file uploads, and **Cloud Run** to scale containers automatically under load.

Banking Application: Academic Project
- Developed a secure, full-stack digital banking application using **Next.js** and **Appwrite**, with **SSR-based authentication** and form validation via **React Hook Form** and **Zod**, reducing input errors by 30%.
- 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.

WORK EXPERIENCE

IT Support Technician — Sep 2024 - Dec 2024
Hudson Community College, North Hudson Campus, Union City, NJ
- Assisted 10+ students and faculty members with technical support, troubleshooting, and resolving hardware and software issues.
- Supported system upgrades and routine maintenance, improving performance and reducing downtime by 20%.
- Collaborated with faculty and staff to address recurring technical problems, implementing solutions that ensured smooth operation of lab environments