APOORV VERMA

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Education

MS in Computer Information Systems - Boston University, MA, USA — Expected May 2025
- **Graduate Teaching Fellow** for Data Science with Python (Course Code: CDS DS 110)

B.Tech in Computer Science - Shri Vaishnav Institute of Information Technology, India — Jul 2021

Experience

Software Development Engineer II - Gytworkz Technologies — India, Apr 2023 – Aug 2023

Skills: NodeJS, TypeScript, AWS Services (SQS, API Gateway, SNS, S3, Lambda, CloudFormation, Connect), Twilio APIs
- Architected and built a scalable back-end communication service for a Dynamic Contact Center with **Node.js (TypeScript) and Twilio APIs**, supporting **10K+ daily** interactions (voice, video, SMS, email) and reducing average call setup times by **20%**.
- Led back-end development on **3+** large-scale projects, launching and implementing pivotal Microservices for engagement slot creation **(API Gateway, SQS, and CloudWatch)**; processed **100K+ transactions** monthly with a **99%** success rate.
- Implemented a collaborative **CRM system** with role-based communication capabilities integrating **AWS Connect, SNS, Twilio Voice, and Zoom APIs**, boosting team productivity by **30%** and serving **1,000+** unique active users monthly.
- Optimized infrastructure deployment by leveraging **AWS CloudFormation**, designing reusable YAML templates, which refined resource provisioning and accelerated deployment cycles by **40%** across multiple projects.

Software Development Engineer I - Gytworkz Technologies — India, Jul 2021 – Mar 2023

Skills: NodeJS, TypeScript, AWS Services, Socket.IO, PostgreSQL, Sequelize, MongoDB, Azure Services
- Engineered scalable backend solutions for critical services - including real-time appointment booking (**SQS, Lambda**), chat systems (**Socket.IO**), and Geofencing (**PostGIS for PostgreSQL**) - that handled **2,000+** concurrent bookings daily.
- Developed a cloud-based contact center leveraging **AWS Connect** for voice and text communication, including AWS services: **Lambda, API Gateway, S3, DynamoDB, RDS, Pinpoint, SNS, IAM, and CloudWatch** to enhance system performance.
- Migrated and scaled a fleet management application backend from **MongoDB** to **PostgreSQL** and **Node.js (TypeScript),** improving operational efficiency by **60%**, while optimizing image storage with **Azure Blob Storage** for seamless performance.
- Spearheaded creation of database architecture and APIs for Action and Inspection Tracking Systems in a fleet management platform, simplifying workflows for **350+** vehicles and cutting data retrieval times by **35%.**
- Streamlined a robust **RBAC system** with hierarchical fine-tuning, ensuring secure and regulated access for **500+** users.

Software Developer Intern - Digital Projekt — India, Jul 2020 – Jun 2021

Skills: ReactJS, NextJS, Tailwind CSS, Adobe XD, Figma
- Architected and maintained **10+** responsive front-end applications with **ReactJS, NextJS,** and **Tailwind CSS**; established project wireframes in **Adobe XD** & **Figma** and used **GitHub** with **Netlify** to collaborate, deploy and host these web applications.
- Mentored and trained a team of five developer interns through a full **project development lifecycle**, overseeing design, development, testing, and deployment, ensuring project completion within deadlines.
- Drafted and deployed **15+** WordPress websites following Agile principles, consistently meeting client requirements and providing post-launch video tutorials that reduced support requests by **50%.**
- Managed and curated **35%** of content for company's blog page using **Ghost CMS**, increasing user engagement by **30%**.

Academic Projects

Finance Tracker [(Link)](#) – *NextJS, Hono, Drizzle ORM, Clerk, Neon, PostgreSQL, Tailwind CSS* — Oct 2024 – Dec 2024
A Web application that helps users manage personal finances by tracking income and expenses, categorizing payments, and visualizing spending habits through charts. NextJS, Tailwind CSS, Shadcn UI and React Charts on frontend, Clerk for User management, Drizzle ORM with PostgreSQL on Neon DB, Hono for APIs, in a span of 3 months.

Portfolio Website v2 [(Link)](#) – *NextJS, Typescript, Tailwind CSS, Framer Motion, Netlify* — Nov 2024
Revamped iteration of a previous website to showcase portfolio and projects, boosting UI/UX and Lighthouse performance.

College Fest's Website (SVVV Spandan '20) **-** *HTML, CSS, JS, Bootstrap* — Feb 2020
Engineered and structured a redesigned website in just 5 days to effectively showcase key attractions and events of the Festival.

Skills

Languages:	TypeScript, JavaScript, Java, C++, Python, R, HTML, CSS
Frameworks/Libraries:	Node JS, React JS, Next.js, Express, Hono, Bootstrap, Socket.IO, Chart.js, Tailwind CSS, SASS
Databases:	PostgreSQL, MySQL, MongoDB, Redis, DynamoDB, Amazon RDS
Tools and Technologies:	AWS(CloudFormation, Lambda, Connect, SQS, API Gateway, S3, Pinpoint, SNS, IAM, CloudWatch), MS Azure, Heroku, Netlify, Sequelize, Drizzle, Postman, Figma, Twilio, Swagger