Pranav Dua

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Education

Sardar Vallabhbhai National Institute Of Technology Surat, Gujarat   **Dec 2021 – Jun 2025**
B.Tech in Electrical Engineering   *CGPA: 8.65/10 | Departmental Rank 7*

Dewan Public School, Meerut   **Apr 2009 – Mar 2021**
High Secondary School (CBSE)   *AISSCE - 99% | HSCE - 98.6%*

Experience

Searce Inc.   **Jan 2025 – Present**
Software Engineer   *Pune*
- Developed standalone credit modules for an **O2C** management tool, integrating **SendGrid** with **Celery** & **RabbitMQ** for automated invoice delivery & **Stripe** for secure payment processing, **optimizing** invoice workflows.
- Designed & implemented **CI/CD** pipelines with **SonarQube** integration to identify code smells, significantly improving code quality & maintainability for **cloud-based** build & deployment processes.
- **Migrated** legacy **AngularJS** codebase to **Angular v18**, modernizing the application and improving performance.

Projects

CasePy Hub | *Next.js, Stripe, PostgreSQL, Kinde, Uploadthing,Typescript* ⊙ (Deployment)   **Jun 2024**
- ∗ Custom phone case **e-commerce** site in Next.js with **shadcn-ui**, offering an intuitive, personalized shopping experience.
- ∗ Kinde **OTP authentication** and NeonDB with PostgreSQL for secure access and efficient **data management**.
- ∗ Prisma for database **CRUD operations** and UploadThing with **S3** for streamlined file handling and storage.
- ∗ **Admin dashboard** for efficient order oversight and Stripe-integrated payments for **secure transactions**.

StudyNotion | *ReactJs, Node.js, Express.js, MongoDB, Cloudinary, AWS, APIs* ⊙ (Deployment)   **Jan 2024**
- ∗ **EdTech platform** enabling course creation and management for instructors, with video-based lessons for students.
- ∗ Enhanced security with integrated **JWT token** authentication and **email verification** system.
- ∗ Utilized Cloudinary for **efficient storage** and delivery of educational media, improving content delivery speed by **50%**.
- ∗ Integrated **secure payment system** and hosted backend on **AWS EC2** for reliable performance.

S.A.D.A.K - Smart Traffic Optimization | *OpenCV, R-CNN, Flask, TensorFlow* ⊙ (Deployment)   **Oct 2023**
- ∗ Real-time **traffic management** system using UAV imagery, OpenCV (YOLOv8) to detect & geo-reference traffic issues.
- ∗ Analyzed drone footage, processing **50,000 images** with **85% congestion** & **90% object detection** accuracy.
- ∗ Utilize Google Maps, TomTom **APIs** and CNNs to identify **25,000** congestion areas monthly, validated with drone data.
- ∗ Dispatch alerts with a **quick response time**, supported by a Streamlit server capable of handling **high concurrency**.

CryptoVerse | *Node.js, ReactJs, jQuery, EJS, Axios, Cheerio, VanillaJS* ⊙ (Deployment)   **Aug 2023**
- ∗ **Responsive app** with features like currency/portfolio trackers, news, events, top gainers/losers, & a crypto dictionary.
- ∗ Integrated Coingecko, CryptoCompare APIs for **comprehensive data** including rankings, prices, market caps & events.
- ∗ Implemented **web scraping** using Cheerio and a local-storage-based portfolio tracker for investment monitoring.

Technical Skills

Languages: C, C++, Python, JavaScript, TypeScript, SQL.
Developer Tools: VS Code, Git, Github, Docker.
Cloud/Databases: MongoDB Atlas, PostgreSQL, Google Cloud Platform, AWS, Azure.
Technologies/Frameworks Certified: ReactJs, Next.js, Firebase, Node.js, Express.js, Django, Angular, REST APIs.
Coursework: Data Structures, OOPs, Operating Systems, Computer Networks, Database Management, Machine Learning.
Soft Skills: Problem Solving, Communication, Management, Team Work, Critical Thinking.

Achievements

- Emerged as **Campus Winner** in Bajaj's Ohm challenge, designing a simulation for Electric Vehicle.
- Ranked in the **Top 50** out of **2,800+** geeks in my college's GFG community, with a highest **LeetCode** rating of **1778**.
- Among **Top 15** finalist at GDSC's hackathon Hack The Tank 2.0 with **700+** participants.
- **Semi-finalist** in GE Healthcare's Precision Care Challenge, recognized in the category of mental health wellness.

Certifications

- Contributed to open source projects in **GSSoC'24** & developed blockchain solutions at **Timechain Labs**.
- Achieved **Postman API Student Expert** certification, demonstrating proficiency in API testing & development.
- Earned **Cisco Data Analytics Essentials** certification, showcasing expertise in data analysis & visualization.
- Earned Google **Cloud Digital Leader** & **Associate Cloud Engineer** certifications, demonstrating expertise in cloud architecture & solutions.