A SHUBAM LUNAWAT

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Portfolio | LinkedIn | Github | Leetcode
Location : Chennai , India

SUMMARY

Final-year BTech student in Computer Science at VIT Chennai (CGPA: 8.38), with hands-on experience in full-stack development, scalable back-end systems, and API integration. Interned as a Software Developer at ProfitAngles, delivering production-grade systems in finance, legaltech, and NLP. Skilled in Java, C++, Python, SQL, and web technologies. Delivered production-grade applications during internships and projects, including building RESTful APIs, cloud-based platforms, and enterprise-scale solutions. Strong communicator with proven ability to work in cross-functional teams and solve complex engineering problems.

EXPERIENCE

ProfitAngles

Software Developer Intern May 2025 – July 2025

- Interactive Financial Dashboard: Designed a responsive, user-friendly interface enabling users to upload stock data and visualize key technical indicators (e.g., RSI, SMA, EMA, MACD, OBV), enhancing decision-making through intuitive charts and controls.
- Developed and deployed RESTful APIs and modular back-end services in Django, integrating with SQL databases for secure data handling.Automated deployment pipelines with GitHub Actions and cloud hosting, cutting release time by 80%.
- End-to-End CI/CD Workflow: Set up a robust development pipeline using GitHub Actions, Vercel, and cloud-hosted infrastructure, automating build, test, and deployment processes and reducing deployment time from over 30 mins to under 5 mins.
- Modular Frontend & Scalable Backend: Engineered reusable React components integrated with a modular Django backend to streamline development and ensure long-term scalability and maintainability.
- Secure Access & Authentication: Implemented user authentication and secure data handling practices, including encrypted communications and access control to protect sensitive user data and reduce risk by 50%.
- Collaborated with cross-functional teams to design business applications with scalable front-end and back-end solutions.

SKILLS

Programming Languages: Python, C++, Java, JavaScript, TypeScript, SQL
Systems & APIs: Spring Boot, Rest APIs, Web Services
Databases & Storage: MySQL, MongoDB, MongoDB Atlas, Firebase Firestore, Supabase
Cloud & DevOps: AWS, GCP, Firebase, Vercel, Netlify, Render, GitHub Actions
Web & App Development: React.js, Next.js, Django, FastAPI, Flask, Express.js, Node.js, Tailwind CSS, Bootstrap, Material UI, ShadCN, Framer Motion
Machine Learning & Data Science: scikit-learn, TensorFlow, PyTorch, Hugging Face Transformers, OpenAI API, LangChain, Pandas, NumPy, Matplotlib, Seaborn, SHAP, LIME
NLP & Retrieval: spaCy, FAISS, SentenceTransformers, FinBERT, Regex, EasyOCR, DeepSeek API, Gemini API
Tools & Platforms: Git, GitHub, Postman, Figma, VS Code, SSH
Soft Skills: Leadership, Event Management, Public Speaking, Team Management

EDUCATION

Vellore Institute of Technology, Chennai — Sep 2022 – Jul 2026
BTech Computer Science and Engineering — CGPA: 8.38

College Activities:

- Microsoft Innovations Club – Team Member: Coordinated 10+ events with cross-functional teams, increasing participation by 20% and workflow efficiency by 15%..
- Google Developer Student Club – Team Member: Collaborated with the finance team on *DevsHouse*, a national hackathon; contributed to sponsor/stakeholder coordination and event success.
- Entrepreneur Cell Club - Team Member: Collaborated with the marketing team to host a webinar on “How to make a successful Startup” for all students with a Special Guest Host.

Bhavans Rajaji Vidhyashram, Chennai,

Jun 2022

Grade 12 Percentage: 79%

Mar 2020

Grade 10 Percentage: 91%

PROJECTS

Study-Notion Learning Model [Github-Frontend] [Github-Backend]
A full-stack ed-tech platform enabling course creation, enrollment, and secure payments with role-based access and media management.
• Designed and implemented a scalable backend architecture for an ed-tech platform enabling authentication, course lifecycle management, and secure online payments.
• Built and deployed over 25+ RESTful APIs supporting dynamic course creation, section management, file uploads (PDF/videos), and student progress tracking.
• Engineered admin, instructor, and student user roles using JWT tokens, role-based access control (RBAC), and secure route guards.
• Integrated Razorpay with HMAC signature verification to enable seamless course purchases and webhook-based order status tracking
• Utilized Cloudinary SDK for optimized media storage (images, videos) and Mongoose ODM for robust schema design with validation middleware.

Medical Chatbot – Generative AI [Github]
An AI-powered medical chatbot leveraging generative models to provide healthcare-related responses with safe query handling.
• Fine-tuned transformer-based language models (T5/GPT) for domain-specific query answering with contextual understanding.
• Built a Streamlit-based UI for real-time chatbot interaction with conversation history awareness and response fallback logic.
• Implemented fuzzy matching for FAQs and integrated external medical resources to improve accuracy of responses.
• Applied prompt-engineering techniques and response filtering to enhance reliability and safety in medical contexts.
• Deployed the system on cloud infrastructure with modular backend APIs for scalability and accessibility.

Hand Gesture Volume Controller [Github**]**
A real-time computer vision project enabling volume control through dynamic hand gestures using webcam input.
• Utilized OpenCV and MediaPipe for real-time hand detection and tracking with fingertip landmark recognition.
• Engineered gesture-based controls to adjust system volume, achieving low-latency responsiveness under variable lighting.
• Optimized frame processing pipeline for smooth gesture detection at 30+ FPS with efficient CPU usage.
• Implemented thresholding and smoothing algorithms to minimize false positives and jitter in volume adjustment.
• Designed an intuitive UI overlay displaying hand landmarks and real-time feedback on volume changes.

Stock Price Prediction – LSTM [Github]
A deep learning-based system for forecasting stock price movements using historical market data and recurrent neural networks.
• Collected and preprocessed time-series data with feature scaling, windowing, and train-test splitting for robust model input.
• Designed and trained multi-layer LSTM networks with dropout regularization to prevent overfitting and improve generalization.
• Evaluated model performance using MSE, RMSE, and directional accuracy metrics against baseline models (ARIMA, Moving Average).
• Applied backtesting strategies to validate predictive power under realistic trading scenarios.
• Developed a visualization dashboard to plot historical vs. predicted trends for better interpretability.

CERTIFICATIONS

- FullStack Web Development Apna College Mar 2024 [Link]
- Deep Learning Specialization DeepLearning.ai Coursera Oct 2024[Link]
- Natural Language Processing Specialization DeepLearning.ai Coursera Feb 2025[Link]
- Machine Learning Specialization Stanford Online Coursera Jun 2024[Link]