Lala Arnav Vatsal

Software Engineer

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Professional Experience

SDE Intern, Dell Technologies **Bengaluru, Karnataka** *05/2025 - 07/2025 (2 months)*
- **Automated factory workflows** for 17G PowerEdge servers using iDRAC OOB controller, enabling zero-touch provisioning.
- **Enhanced configuration coverage** by integrating scalable automation pipelines into the factory process.
- **Collaborated with cross-functional teams** to streamline deployment and validation of server configurations at scale.

Backend Engineer, Symplora **Remote** *07/2024 - 04/2025 (10 months)*
- **Architected and deployed** scalable, high-availability backend systems, by implementing microservices architecture.
- **Integrated AI-driven solutions,** into core product modules, optimizing inference pipelines to enhance response times.
- **Implemented strategic system enhancements** based on competitive analysis and user feedback, driving performance gains.

DevOps Intern, BetterPlace **Bengaluru, Karnataka** *06/2024 - 07/2024 (2 months)*
- **Deployed and managed AWS services ecosystem**, ensuring optimized infrastructure performance and seamless operations.
- **Improved system reliability and issue resolution efficiency**, by implementing proactive monitoring and alerting solutions.
- **Optimized cloud resources** by scaling EKS and RDS nodes in response to demand, resulting in substantial cost reductions.

Education

B.Tech in Computer Science and Engineering **Manipal University Jaipur, Rajasthan** *05/2026*
- Achieved a CGPA of **9.66** in 10 Point GPA.
- Recognized on the **"Dean's List"** for excellence in academics throughout all semesters.

Higher Secondary School Certificate [CBSE] **Delhi Public School, Ranchi, Jharkhand** *07/2022*
- Graduated 12th with a score of **89.8%**.

Skills

Programming Languages: Python, C++, JavaScript — **Front-End:** React, Tailwind CSS, shadcn/ui — **Back-End:** Flask, NextJS, FastAPI, Django, NodeJS — **AI/ML:** Scikit-learn, TensorFlow, Keras, NumPy, PyTorch, CUDA, OpenCV, NLTK, spaCy — **Databases:** PostgreSQL, DynamoDB, Oracle DB, MySQL, MongoDB — **Game Development:** Unity, Rendering Pipelines, Frame Optimization, Physics Simulation, Real-Time Systems, Memory Management — **Cloud:** AWS EC2, EKS, Load Balancers, OpenSearch, RDS, CloudFront, VPC, Secrets Manager, Route 53, CloudFormation, ECR, SNS, CloudWatch, API Gateway, ElasticSearch — **Development Tools:** Git, Jenkins, Postman, Jira, Confluence, Docker

Research Papers

Advanced ML and Deep Learning for Disease Diagnosis: Predictive Symptom Analysis
- **Accepted for publication** in the Scopus-indexed Springer Book Series "Smart Innovation, Systems, and Technologies".
- **Designed a disease prediction framework** using a meta-ensemble approach, combining 8 distinct model architectures.
- **Provided actionable insights for medical professionals**, by developing advanced model stacking strategies to improve prediction robustness.

Awards

Winner of Vendata, MUJ IEEE *Feb, 2024*
- **Trained a highly specialized LLM** on technical documentation of 10+ frameworks such as JavaScript, React, Node, Next.
- **Implemented a web scraping framework** to retrieve data from open-source GitHub repositories, tutorials, and guides.
- **Achieved a balance between domain-specific accuracy and general language comprehension** by initially training the model on the OpenWebText dataset and subsequently fine-tuning on framework documentation.

Runner up of Datathon, MUJ ACM *Jan, 2023*
- **Aggregated, cleaned, and processed rainfall data** from diverse sources, visualizing it to identify emerging trends.
- **Implemented LSTM networks** for sequential data analysis, with training accuracy of 75.6% and testing accuracy of 62.5%.