

Cherukuri Gaurav Sushant

Dresden, Germany | Email: gauravsushant267@gmail.com | Phone: (+91) 7337225784

LinkedIn: [linkedin.com/in/gaurav-sushant-cherukuri](https://www.linkedin.com/in/gaurav-sushant-cherukuri) | GitHub: github.com/CGS26/ | Portfolio: cgsushant.com/

Objective

Software engineer specializing in AI-powered systems, scalable backend services, and full-stack web applications using Python, React, FastAPI, and cloud platforms.

Skills

Programming & Systems: Python (Advanced), C/C++ (Working Knowledge), Java, Linux, Bash, Git

Machine Learning & AI: PyTorch, TensorFlow, Keras, Scikit-Learn, Neural Networks, CNNs, NLP, Computer Vision

Model Deployment & Systems: ML inference pipelines, model optimization, ONNX (familiarity), performance-aware software design, heterogeneous compute workloads

Cloud & Tooling: AWS, Azure, Google Cloud, Docker, Kubernetes, Azure Data Factory, GitLab CI/CD

Data & Databases: MySQL, MSSQL, MongoDB, NoSQL, Statistics, Probability, Data Analysis

Frameworks : Flask, Node.js, React, Next.js

Soft Skills: Analytical thinking, independent working style, attention to detail

Experience

Role – Software Developer

NexGen Tech Labs - UK (Remote) | August 2025- February 2026

- Designed and developed core features for an AI-assisted platform supporting modern application development workflows Built core features for an AI-assisted infrastructure platform using FastAPI and React, enabling creation, configuration, and execution of Terraform workflows.
- Designed the end-to-end system architecture (APIs, database, workflow orchestration) and implemented LLM-powered Terraform generation using LangChain, with GitHub integration for version control and workflow management.
- Implemented secure authentication with Clerk and deployed the platform on Azure Web Apps, ensuring scalable and production-ready infrastructure.

Role – Freelance Developer

Prepstreak, UK(Remote) | June 2025- July, 2025

- Built a cross-platform mobile learning app using React Native and Supabase, delivering personalized study content, real-time tracking, and gamified streak systems to improve student engagement.
- Engineered an LLM-powered PDF-to-SQL data pipeline using Python, LangChain, LlamaIndex, and n8n, automating extraction, normalization, and validation of SAT practice data into structured databases.
- Delivered a production-ready automated data system that significantly reduced manual data entry and enabled scalable, database-driven application features.

Role - Intern

Xyenta, Hyderabad, India | Jan 2025- June 2025

- Collaborated with cross-functional teams to design and implement scalable, performance-aware software components.
- Developed and deployed backend services supporting compute-intensive workloads using Python and cloud platforms.
- Migrated CPU-intensive tasks to serverless architectures (AWS Lambda), reducing downtime by 10% and operational cost by 40%.
- Applied best practices in CI/CD, version control, and system reliability, aligning with production-grade software standards.

Role - Trainee Intern

Xyenta, Hyderabad, India | August 2024- December 2024

- Built scalable ETL pipelines using Azure Data Factory and Apache Flink, performing SCD Type 1 & 2 transformations on MSSQL to support reliable, large-scale data warehousing and analytics.
- Improved data accessibility and product planning by enabling efficient data processing, forecasting, and cross-team analytics workflows.

Role – Research Intern

Precog@IIITD, Hyderabad, India | February 2024 – August 2024

- Developed and evaluated NLP/ML models, building predictive pipelines and analytical dashboards to support data-driven AI systems.
- Conducted benchmarking, testing, and optimization of ML workflows in Linux-based environments, focusing on efficient inference and deployment readiness.

Role - Infosec Intern

Newmark, Hyderabad, India | June 2023 – August 2023

- Security & Performance: Automated incident response in Azure Sentinel; developed custom detection rules with KQL to improve proactive threat management.
- Metrics-Driven Analysis: Employed telemetry data to optimize firewall configurations and threat-hunting processes, ensuring a more stable and secure platform.

Education

Master of Science (M.Sc.) – Computational Modeling and Simulation.

October 2025- September 2027

Technische Universität Dresden, Germany

- Focus: Scientific Computing, High-Performance Computing, Applied Mathematics
- Interests: AI-driven modeling, edge intelligence, performance-critical systems

Bachelor of Technology in Data Science and Artificial Intelligence

August 2021- May 2025

ICFAI Foundation for Higher Education, Hyderabad

CGPA: 10.0

- Core Focus: Machine Learning, Cloud Computing, Computer Science Principles

PUBLICATIONS

- **Research Paper- Title:** Investigating Vulnerabilities of Information Solicitation Process in RPL-based IoT Networks
- **Research Chapter - Title:** Optimizing Networking Systems with Machine Learning Approach
- **Research Paper- Title:** A Comparative Analysis of Deep Learning Algorithms for Intrusion Detection in IoT

Projects

QuickLeave

Link: <https://quickleave-fst.vercel.app/>

Oct 2024 – Nov 2024 | Next.js, Firebase, Material UI

- Built an efficient leave management system used by HR teams, delivering a 25% reduction in approval times.
- Designed with customers in mind, focusing on intuitive workflows and responsive UI.
- Emphasized high-quality frontend and backend integration for seamless operation.

DocuSpace

Link: <https://docu-team.web.app/>

Aug 2024 – Sep 2024 | Next.js, Flask, Ollama (LLM)

- Developed an LLM-powered OCR document assistant using Flask, enabling text extraction, semantic search, and chat-based interaction with documents.
- Designed a low-latency neural inference pipeline and clean APIs to support efficient backend processing and seamless GenAI integration.

AWARDS & ACCOLADES

- Credited as Winner of Smart Indian Hackathon-2024, in the Software domain (Internal Round)
- Received 100% Merit-based scholarship for Academic Excellence at ICFAI
- Selected for AI/ML Program at IIIT (Where the top 2 students from each institute were selected)
- Finalist in Smart India Hackathon 2024 (National Level)