

Gautham Krishna S

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PROFESSIONAL SUMMARY

Pragmatic software engineer skilled in full-stack development, building scalable APIs, and delivering impactful features. Proficient in modern languages, frameworks, and cloud tools, with strong foundations in data structures and algorithms. Experienced in collaborative product development, performance optimization, and integrating AI-driven solutions to enhance user experience.

EDUCATION

Indian Institute of Technology Madras	CGPA - 9.17
<i>Bachelor of Science (BS) Degree in Data Science and Applications</i>	<i>May 2023 – May 2027</i>
Saveetha Engineering College	CGPA - 8.85
<i>Bachelor of Technology, Artificial Intelligence and Machine Learning</i>	<i>Sep 2023 – May 2027</i>

PROJECTS

AcademiaSync <i>Next.js, Node.js, Express, PostgreSQL, Docker</i>	
• Developed scalable microservices with Google OAuth and role-based access control for authentication.	
• Integrated real-time analytics and course management for enhanced UX using React and Next.js.	
• Implemented CI/CD pipelines using GitHub Actions, with containerized deployments on Docker.	
Traffic Men <i>Python, ML, ARIMA, Random Forest, XGBoost, NetworkX</i>	
• Engineered adaptive scheduling with AI-based routing reducing commuter wait times by 20%.	
• Integrated real-time and historical traffic data with predictive analytics for demand forecasting.	
• Visualized traffic patterns with NetworkX layouts to optimize urban flow for improved safety.	
AI Data Analyst <i>Python, FastAPI, Playwright, DuckDB, OpenAI GPT</i>	
• Built a FastAPI backend for multi-format data ingestion and AI-driven natural language analysis.	
• Automated data scraping, cleaning, and SQL query generation with DuckDB for complex data tasks.	
• Orchestrated multiple LLMs for reliable data insights, improving automated analysis efficiency by 30%.	

EXPERIENCE

Software Engineer Intern	Sep 2025 – Oct 2025
<i>Presidio</i>	
• Implemented microservices using Node.js and Express with containerized deployment using Docker and Terraform	
• Built responsive front-end with React, Tailwind CSS ensuring cross-device compatibility and mobile optimization	
• Delivered features on schedule with diagnostics instrumentation for system observability and health tracking	
• Reduced errors by 30% through unit testing and monitored using AWS CloudWatch and GCP Cloud Monitoring	
Event Coordinator	Oct 2024 – Dec 2025
<i>Google Cloud Platform, IIT Madras</i>	
• Coordinated technical bootcamp for 500+ participants earning 18 AI/ML and cloud development certifications	
• Facilitated hands-on workshops building GenAI applications using Vertex AI, Gemini, and Cloud APIs	
• Managed project delivery using cloud-native tools including Dataplex, Looker, and API Gateway for data analytics	
• Achieved 95% completion rate and top 5% national ranking through effective project management and mentoring	

TECHNICAL SKILLS

Languages: Python, Java, C, SQL, JavaScript
Frameworks: FastAPI, Flask, React, Next.js, Node.js, Express, Tailwind CSS
Databases: PostgreSQL, SQLite, DuckDB, MongoDB
Developer Tools: Git, Docker, Kubernetes, AWS, Google Cloud Platform, Terraform, VS Code
Libraries: pandas, NumPy, scikit-learn, PyTorch, Tensorflow, OpenCV, Matplotlib, Seaborn, Plotly
Other Skills: REST APIs, CI/CD, Statistical Analysis, Model Evaluation, Tableau, Power BI, Fusion 360 (CAD)
Certificates: AWS Cloud Practitioner, Google Cloud GenAI Bootcamp, PyTorch Ultimate 2024