

Athul Baburaj

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Skills

Programming: Python, Java, C++, C#, Go

Cloud & DevOps: GCP, AWS, Docker, Kubernetes, OpenShift, Terraform, CI/CD, Helm, ArgoCD

Databases: PostgreSQL, Cassandra, PG Vector, MongoDB

Machine Learning: LangChain, PyTorch, NLP, LLM Fundamentals

Tools & Frameworks: Spring Boot, Django, Git, Jenkins, Linux

Soft Skills: Team Leadership, Technical Communication, Rapid Prototyping, Design Thinking

Certifications: GCP Associate Cloud Engineer, ML Specialization (Andrew Ng), Game Dev (Michigan)

Professional Experience

American Express

Cloud Solutions Engineer

Bengaluru, India

Aug 2023 – Present

- Spearheaded migration of 70+ services from OCP 3.11 to 4.12, improving uptime by 20% and streamlining performance.
- Built and maintained Python automation services, including Code/Helm Validators and a Code Migration Automation tool, enhancing deployment workflows and operational efficiency.
- Took ownership of One Solutions audit services (batch and API), tracking Public Cloud onboardings and ensuring compliance.
- Served as Solutions Architect for multiple internal service mergers, aligning platforms and streamlining integration across teams.

Software Engineer Intern

May 2022 – Jun 2022

- Built frontend for Cloud Migration Orchestrator on AWS; accelerated team POC delivery and tool integration.
- Optimized Cassandra data modeling in real use cases; reduced latency by 30% in query-intensive apps.

Education

NIT Calicut

B.Tech, Electrical and Electronics Engineering

2019 – 2023

CGPA: 8.55

Relevant Coursework: Machine Learning, Cloud Computing, DSA, Computer Networks

Academic Highlight: [First Class with Distinction]

Chavara Public School (CBSE)

12th: 93.8%

2018 *10th:* CGPA 10

2016

Projects

DC-DC Converter Reinforcement Learning

Engineered an RL controller for boost converters using DDPG to handle CPLs; improved voltage stability under load shifts.

Knight Day Fantasy (Retro Game)

Designed and released a Unity-based platformer on itch.io with custom mechanics and retro pixel art; 2000+ plays recorded.

Link: [Game URL]

Full Stack Dev (MUN, Web3, Finance Tracker)

Delivered 3 full-stack apps including a Django finance tracker, an Ethereum-based voting dApp, and a React event portal.

GitHub: [Project Repo]

Leadership & Extracurriculars

Assistant Secretary, Tech SIG – IPF

Organized state-wide MUNs, workshops and competitions; grew participation by 30% year-over-year.

Senior Executive, Ragam 2022

Led execution of 25+ cultural events for 5000+ participants; streamlined planning and issue resolution.

Joint Secretary, IEEE CS

Launched Unity game dev workshop series; mentored 50+ students; hosted monthly tech events.

Arduino Smart Freshener (Tathva'19)

Built IoT-based automation prototype featured at Tathva Expo; introduced custom sensor trigger logic.