

# Gayathri P

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Portfolio: <https://astro-folio-two.vercel.app/>

## Objective

Pre-final year CS student (2026) skilled in building scalable, secure software using Java, Python, and C. Experienced in distributed systems, information retrieval, and AI-powered applications. Excited to contribute to Google's next-gen technologies in a Software Engineering role.

## Education & Qualifications

- **KL University**, Bachelor of Technology in Computer Science 2022–2026  
CGPA: 9.47/10
- **KLN Junior college**, TSBIE Intermediate Education in Mathematics, Physics, Chemistry 2020–2022  
Percentile: 92.7%
- **DPS**, SSC 10th board 2020 passout  
CGPA: 10/10

## Technical and Soft Skills

- **Programming Languages:** Java, C, Python, C++, JavaScript, TypeScript.
- **Systems & Core CS Fundamentals:** Unix/Linux Environments, Operating Systems (Multithreading, IPC, Memory Management), TCP/IP Networking, Distributed Systems, Data Structures & Algorithms, Object-Oriented Programming (OOP), Software Architecture & Design Patterns, Debugging, Unit Testing, Information Retrieval, Data Compression, Large-Scale System Design, Parallel & Distributed computing
- **Full Stack Development & Large-Scale Systems:** Spring Boot, ReactJS, Next.js, Angular, Node.js, JSP, FastAPI, Streamlit, Flask, Django, SvelteKit, REST APIs, Microservices, Scalable Application Design
- **Artificial Intelligence & Machine Learning:** Natural Language Processing (NLP), Transformers, LSTMs, LangChain, Gemini API, Pinecone Vector DB, OpenAI API, AI-Powered Applications (Search/Chat Systems)
- **Cloud & DevOps:** AWS, Linux, Shell Scripting, CI/CD basics, Firebase, Docker (learning), Git, GitHub
- **Databases & Storage Systems:** MySQL, MongoDB, Firestore, Data Modeling, Query Optimization
- **Blockchain & Web3:** Solidity, XRP Ledger, Hardhat, Ethers.js, Viem, IPFS, Smart Contract Auditing, Xumm SDK, Anchor
- **Mobile & UI Development:** Android Studio (Java/Kotlin), Android SDK, UI/UX Design Principles, Component Lifecycle, Material UI, TailwindCSS
- **Cybersecurity:** Cryptography, Burp Suite, Nmap, Penetration Testing
- **Miscellaneous:** LaTeX, Software Testing, Agile (SCRUM), Peer Reviews, Code Documentation
- **Soft Skills:** Problem-Solving, Critical Thinking, Adaptability, Leadership, Time Management, Team Collaboration, Research Mindset, Communication Skills, Ownership

## Global Certifications

- **AWS Cloud Practitioner :** [Credly Badge](#)
- **Red Hat Certified Enterprise Application Developer :** [Credly Badge](#)
- **MongoDB Associate Developer :** [Credly Badge](#)

## Work Experience

**Incoming Software Development Intern, Siemens EDA** (Upcoming July 2025)

- Selected for a 1-year internship focused on enterprise application development and debugging. Will work on projects involving C++, Java, Spring Boot, Angular, and microservices architecture.

**Full Stack Developer Intern - WalletHunter Token 2049** June 2024 - July 2024

- Designed WalletHunter's website, built a Web3 automation tool with 5+ APIs, and enhanced application reliability via testing & debugging.

**Co-founder - Wallstreet DAO Club** July 2024 - Present

- Launched & scaled a Web3 community to 100+ members, leading workshops & NFT-based memberships fostering Web3 innovation.
- Mentored peers in blockchain and Web3 technologies through university clubs and hackathons.

**Software Engineering Fellow - Headstarter AI** August 2024 - September 2024

- Built 5 AI-powered applications and participated in two hackathons over the course of 7 weeks.
- Used tech stack: React.js, Next.js, Pinecone, Groq API, Gemini API, OpenAI, LangChain, Firebase, etc.

## Projects

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- **[TokenDrip](#)**: Built a multi-token faucet using React, Ethers.js, and Solidity, allowing users to distribute and fund tokens. Streamlined token management for Web3 projects and increased user participation by providing a customizable faucet experience.
- **[RAG Application](#)**: Designed a scalable AI-enhanced professor rating system using Pinecone Vector DB and Gemini AI. Integrated custom embeddings to improve information retrieval and search accuracy. Applied vector similarity, data compression techniques, and prompt tuning for real-time semantic search.
- **[AeroToken](#)**: Engineered a scalable and secure NFT-based flight ticketing DApp on the XRP Ledger, ensuring secure, fraud-proof resale—a step toward blockchain-powered enterprise ticketing systems.
- Built 20+ full-stack & blockchain projects solving real-world problems in AI, automation, and distributed systems , check out at [my GitHub](#).

## Achievements

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- **MAH Mini App Hackathon (Top 15 Teams)**: Shortlisted among the top 15 teams for the demo day, developed a mini app for the Wallstreet DAO DApp.
- **KLH University ImpacTech 2K24 Hackathon winner (1st Prize)**: Developed an NFT-based flight ticketing DApp on Ethereum Sepolia, winning 1st prize.
- **Runner up** for Frontend UI Hackathon by **Outlier AI**.
- **Won \$35 track** for Nebius AI Studio EverydAI hackathon by Sprint.dev and Nebius Studio.
- **Adobe Gensolve Hackathon (Top 5%)**: Scored 80% overall, built a classification model for curve detection using AI techniques.
- **Timechain Summer of Code (Top 20%)**: Passed two phases and a sprint week to build an MVP for a property mortgage system using NestJS, SvelteKit, and BSV Wallet. Currently contributing to building their tokenization blockchain based platform product.
- **Wallstreet DAO Club - Web3 Community Building**: Organized two successful events in collaboration with Aleph Zero India, fostering Web3 awareness and community engagement.

## Publications and Technical Writing

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### Technical Blogs on Blockchain

- Authored several technical blogs on blockchain, covering topics such as decentralized applications, NFT-based systems, and Web3 security.  
[Link to my blogs on Wallstreet DAO club](#)  
[Link to my personal Medium](#)

### Conference Presentation: Environmental Impact of Blockchain Computation

- Presented a paper at a university conference on the environmental impact of computational processes on blockchain networks.

## Declaration

I hereby declare that the information provided above is true to the best of my knowledge and belief.

## Gayathri P

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