

AAYISHA PARVEEN S

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PROFESSIONAL SUMMARY

Results-driven Computer Science and Engineering graduate (CGPA: 8.67) with hands-on experience in full-stack software development, cloud infrastructure, and AI/ML application engineering. Proficient in building scalable RESTful APIs, microservices, and production-grade systems using Python, Java, React.js, Node.js, Spring Boot, and Flask. Experienced with cloud platforms (AWS, Azure), DevOps practices (Docker, Terraform, CI/CD pipelines), and machine learning frameworks (PyTorch, TensorFlow). Strong command of SDLC, Agile methodologies, data structures and algorithms, DBMS, and operating systems. Seeking a Software Engineer role to leverage technical skills in a collaborative, high-impact environment.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript (ES6+), SQL

Web & Frontend: React.js, Node.js, HTML5, CSS3, REST API Design

Backend & Frameworks: Spring Boot, Flask, FastAPI, Microservices Architecture

Databases: MySQL, PostgreSQL, MongoDB, Database Design, Data Modeling

Cloud Platforms: AWS (EC2, S3, IAM), Microsoft Azure, Cloud Infrastructure Management

DevOps & CI/CD: Docker, Terraform, Azure Pipelines, GitHub Actions, Git, Linux, Agile/Scrum

AI / ML & Computer Vision: OpenCV, MediaPipe, PyTorch, TensorFlow, LSTM, Transformer Models, LLM Integration, Prompt Engineering

Data & Analytics: Power BI, Data Analysis, Data Visualization, Microsoft Excel

Core CS Concepts: Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, SDLC, OOP

WORK EXPERIENCE

Software Engineering Intern – Full Stack & Cloud | HTGE Technologies Jul 2025 – Aug 2025

- Designed, provisioned, and deployed scalable cloud infrastructure on AWS EC2 and S3; automated deployment pipelines using Azure Pipelines, reducing deployment time by 40%.
- Developed and maintained full-stack web application modules using Python, Flask, and RESTful APIs, reducing manual processing time by 30% through automation.
- Implemented CI/CD workflows using Docker containerization and Terraform infrastructure-as-code, improving deployment consistency and reducing release cycle time.
- Collaborated with cross-functional Agile teams using Git/GitHub for version control, code reviews, and sprint-based iterative development.
- Wrote and maintained technical documentation for APIs and deployment procedures, following SDLC best practices.

PROJECTS

AI-Driven Classroom Engagement Analytics System

Technologies: Python, OpenCV, MediaPipe, PyTorch, TensorFlow, LSTM, Transformer Models, FastAPI, React.js, PostgreSQL, MongoDB, Docker

- Engineered a real-time AI-powered classroom monitoring system that analyzes student head pose, gaze direction, and posture using OpenCV and MediaPipe to quantify engagement levels.
- Designed and trained LSTM and Transformer deep learning models (PyTorch/TensorFlow) on behavioral time-series sequences to classify engagement with high classification accuracy.
- Built a scalable FastAPI backend with RESTful endpoints and a React.js/Streamlit frontend dashboard; containerized the full stack with Docker and integrated PostgreSQL and MongoDB for data persistence.
- Applied data preprocessing pipelines and model evaluation techniques to optimize model performance across diverse classroom environments.

AI E-Commerce Product Recommender System

Technologies: Python, Flask, LLaMA LLM, REST API, Prompt Engineering

- Developed a real-time intelligent product recommendation engine using Python Flask integrated with LLaMA large language models (LLMs) for context-aware, personalized recommendations.
- Designed and implemented RESTful API endpoints to serve dynamic product suggestions; improved recommendation relevance and accuracy through advanced prompt engineering techniques.
- Achieved measurable improvement in recommendation quality by fine-tuning prompts and optimizing LLM inference pipeline for low-latency responses.

Static HTTP Website Hosting on AWS EC2

Technologies: AWS EC2, Windows Server, IIS, Security Groups, Networking

- Configured and hosted a static HTTP website on an AWS EC2 Windows Server instance using Internet Information Services (IIS), demonstrating hands-on cloud infrastructure deployment skills.
- Configured security groups, inbound/outbound firewall rules, and networking settings to ensure secure, reliable, and scalable public access following AWS best practices.

EDUCATION

Bachelor of Engineering – Computer Science and Engineering

Aalim Muhammed Salegh College of Engineering, Chennai

Expected 2026

CGPA: 8.67

Higher Secondary Certificate (12th Grade)

CSI Bain Matric Hr. Sec. School, Chennai

2022

89%

Secondary School Certificate (10th Grade)

CSI Bain Matric Hr. Sec. School, Chennai

2020

85%

CERTIFICATIONS & TRAINING

- Google Project Management Professional Certificate – Google
- Microsoft Azure Cloud Fundamentals (AZ-900) – Microsoft
- Generative AI: Prompt Engineering – IBM
- Full Stack Web Development – Coursera (Amazon)
- Advanced Microsoft Power BI – Coursera (Edureka)
- DevOps and Build Automation with Python – Coursera (LearnQuest)
- Full Stack AI Development – Udemy
- Generative AI for Application Developers – Coursera
- Data Analytics and Visualization Virtual Internship – Tata (Forage)
- Software Engineering Job Simulation – Accenture (Forage)
- Technology Job Simulation – Deloitte (Forage)

ACHIEVEMENTS

- Academic Excellence Award – Ranked 1st in Semester 2 among all Computer Science Engineering students.
- Academic Topper – Semester 6 excellence award for outstanding academic performance in Computer Science Engineering.