

# Ashish Kushwaha

## Software Development Engineer

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## EDUCATION

### Gautam Buddha University

Bachelor of Technology in Computer Science and Engineering , CGPA: 8.2

Greater Noida, Uttar Pradesh

08/2020 – 06/2024

### Gautam Buddha University

M.Tech in CSE with Specialization in Software Engineering, CGPA: 8.5

Greater Noida, Uttar Pradesh

08/2024 – 06/2025

## EXPERIENCE

### Software Development Engineer — Arial Labs

California, Remote

06/2024 – 05/2025

- Independently developed the company's core product MVP integrating Claude API with AWS serverless backend services.
- Set up CI/CD pipelines, monitoring, and infrastructure automation using Docker, GitHub Actions, and Kubernetes.
- Built scalable SaaS architecture ensuring scalability and availability within 3 months, acquiring early customer acquisition.

### Samsung Innovation Campus — Artificial Intelligence Training

Greater Noida, Onsite

06/2024 – 09/2024

- Completed comprehensive training on Artificial Intelligence covering Machine Learning and Data Analytics.
- Developed models and fine-tuned LLM and Gen AI models using Python, TensorFlow, PyTorch, flux and more.
- Optimized training performance by managing system resources, GPU utilization, and process scheduling on Linux.

### Web Developer Intern — Gautam Buddha University

Greater Noida, in campus

03/2023 – 06/2023

- Developed a MERN stack webapp to manage and track job applicants, improving recruitment efficiency by 30%.
- Implemented 5+ REST APIs and integrated MongoDB for robust and scalable data management.

## PROJECTS

### HireLift | Chrome Extension APIs, AWS, WebSockets and REST APIs.

- AI-powered Chrome extension used by 10+ hiring managers across 60+ interviews to streamline technical evaluations.
- Integrates with 4+ platforms to analyze live captions and JD-CV uploads, generating real-time questions.
- Generates post-interview summaries with tech skills, JD alignment, and key candidate insights via the dashboard.

### Enhanced Research Assistant (AI) | Automated Multi-Agent Web Research & Document Comparison System

- Developed a multi-agent AI research assistant using LLMs to automate web research, gap analysis, and report generation.
- Implemented document comparison against PDFs/text files to identify research gaps and quality differences.
- Built an end-to-end research workflow with a Streamlit UI to generate structured 5–10 page research reports.

### ContextPDF – chat with PDF | Langchain, OpenAI, Gemini, RAG, FAISS.

- Built a multi-PDF chat application using RAG, enabling contextual Q&A over documents with LLMs.
- Implemented FAISS-based vector storage with persistent embeddings and PDF hashing to avoid duplicate processing.
- Integrated Gemini LLM with LangChain and Streamlit to deliver low-latency, context-aware responses.

### Research Paper | Adaptive Task-Based CPU Scaling for Efficient Power Allocation in Edge Computing

- Proposed a lightweight, task-based CPU frequency scaling framework and daemon-driven architecture for reduce power consumption and thermal stress in IoT devices.
- Achieved 90% reduction in CPU frequency variation and 6–8% lower average temperature on Raspberry Pi 3B.
- Published in Springer LNCS, CVR 2025, by NIT Goa, sponsored by the Soft Computing Research Society.

## TECHNICAL SKILLS

**Programming Languages:** C++, C, Bash, JavaScript, Python, Lua, LaTeX, HTML, CSS.

**Frameworks & Libraries:** ReactJS, FXTUI, TailwindCSS, Chrome Extensions, YAML.

**Databases:** MySQL, MongoDB, .

**Tools:** SEO, AWS, QEMU, Linux, Git, GitHub Actions, Docker, Nginx, Vagrant.

**Soft Skills:** Effective Communication, Problem-Solving, Leadership, Adaptability, Team Collaboration.

## CERTIFICATION, PUBLICATION & ACHIEVEMENTS

- Published research paper titled “Adaptive Task-Based CPU Scaling for Efficient Power Allocation in Edge Computing” at CVR2025. The paper will be part of the Springer Book Series: Lecture Notes in Networks and Systems.
- Introduction to Linux (LFS101) by The Linux Foundation, covering core Linux systems and essential fundamentals.
- Earned the Hacktoberfest 2024 badge and published multiple packages on the Arch User Repository (AUR).
- Earned the Oracle Cloud Infrastructure Essentials badge, gaining hands-on experience with core OCI services and architecture.