

Bipasha Bhattacharjee

Software Engineer • AI Engineer • System Builder

India mahibhatt2001@gmail.com github.com/mahi0601 linkedin.com/in/bipashabhattacharjee

SUMMARY

I design and ship systems that survive production: event-driven microservices, cloud-native platforms on AWS & GCP, and AI products that make it past a notebook demo. I care about clean architecture, observability, and the small decisions that make systems resilient.

EXPERIENCE

Tricon Infotech Full Stack & Platform · Dec 2025 – Aug 2026
Software Developer

- Designed a report-generation framework (PPTX, PDF, RTF) with 10+ reusable services, cutting development effort 30%
- Strengthened unit & integration testing, increasing coverage and release reliability
- Partnered cross-functionally to ship faster, more reliable report generation

Python · FastAPI · React · TypeScript · CI/CD

Finbox Fintech Infrastructure · May 2025 – Nov 2025
Software Developer II

- Built LISA & middleware service modules in Python for dynamic lender onboarding and automated request workflows
- Implemented custom authentication, request validation, and error handling for external lender APIs
- Integrated AWS SSM, Secrets Manager & Docker for secure config and deploys across UAT/production

Python · AWS SSM · Secrets Manager · Docker

New Engen Cloud-Native & Growth Systems · Oct 2022 – Apr 2025
Software Developer

- Built a microservices CRM platform with bulk email automation, growing client adoption 15%
- Migrated core infrastructure from MySQL to Firestore, cutting query latency 30% and enabling real-time analytics
- Designed a real-time budget-pacing system with sub-100ms decisioning and automated optimization for campaign ROI

Python · Firestore · MySQL · Microservices · GCP · AWS

SELECTED PROJECTS

Motive github.com/mahi0601/Motive
A block-based workspace — one codebase, three delivery surfaces

- 3 delivery surfaces from one codebase
- Real-time Socket.IO sync across sessions

React · Vite · Capacitor · Node.js · Express · MongoDB · Socket.IO · Docker

Mini CRM github.com/mahi0601/mini-crm-drivex
A sales CRM with Claude-powered shortcuts

- 503 clean degradation with no API key, not a crash
- 3 AI shortcuts — follow-ups, summaries, next-best-action

React · Vite · FastAPI · SQLAlchemy · SQLite · Anthropic API · Docker

ResumeTailor github.com/mahi0601/ResumeTailor
Tailors a real resume to a job post — reorders, never fabricates

- 0 fabricated skills or claims — ever
- 4 bait keywords tested against in regression tests

Python · PyYAML · LaTeX · pytest

EDUCATION

B.Tech — Computer Science
Barak Valley Engineering College, Karimganj

Undergraduate · 2018 – 2022

- CGPA 8.06 — Assam Science & Technology University (ASTU)
- Strong algorithmic foundation — 800+ LeetCode problems solved, CodeForces rating up to 1367
- Global Rank 11 — Arcesium She Codes

SKILLS

Frontend: React, TypeScript, Next.js, Tailwind CSS, Framer Motion
Backend: Python, FastAPI, Microservices, PostgreSQL, Redis
Cloud: AWS, GCP, Kubernetes, Docker, Terraform
AI: LLMs, Agent Workflows, Prompt Engineering, PyTorch, RAG
DevOps: Kafka, RabbitMQ, CI/CD, Observability, GitOps

ACHIEVEMENTS

- **Global Rank 11 — Arcesium She Codes** — Top 11 worldwide in a competitive algorithmic challenge.
- **Sub-100ms Decisioning** — New Engen's real-time budget-pacing system optimizes campaign ROI with sub-100ms decisions.
- **3 Delivery Surfaces, One Codebase** — Motive ships to web, an installable PWA, and native Android from a single Vite + React + Capacitor codebase.
- **Zero Fabricated Claims, Enforced by Tests** — ResumeTailor's regression suite asserts job-description bait keywords never leak into a generated resume.
- **AI That Degrades Clean, Never Crashes** — Mini CRM's LLM features return a clean 503 with no API key configured — the core app still works with zero configuration.



Bipasha

[Home](#) [Journey](#) [Systems](#) [Projects](#) [Skills](#) [Dashboard](#) [Achievements](#) [Blog](#)
[Playground](#) [Contact](#)