Shaswata Das

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Summary

Software Engineer with 4+ years of experience in backend systems, intelligent agents, and applied AI. Contributor to Google's Cirq quantum computing framework and developer of enterprise-grade AI assistants. Research interests span distributed systems, programming languages, and secure intelligent systems. Seeking U.S. opportunities bridging research and industry (H-1B sponsorship required).

Skills

Languages: Python, Go, C#, Java, JavaScript/TypeScript
AI & Intelligent Agents: LangChain, ReAct Agent, LLM APIs, vector databases (Qdrant)
Backend & Systems: .NET, FastAPI, .NET Microservices, Event-driven CQRS systems
Frontend: Angular, TypeScript, WebSocket, Bootstrap
Databases & Cloud: SQL, NoSQL, AWS, Azure, GCP
Security & Protocols: OAuth, SAML SSO, penetration testing, digital forensics
Other: Linux/UNIX, Docker, Kubernetes, Git, CI/CD

Professional Experience

Software Engineer — Orbitax Bangladesh Limited — Mar 2024 – Present
- Led the design and development of scalable software solutions, enhancing system performance and user satisfaction.
- Collaborated with cross-functional teams to integrate features aligned with strategic goals.
- Implemented advanced security protocols to strengthen data protection.
- Mentored junior engineers, fostering a research-oriented learning culture.

Associate Software Engineer — Orbitax Bangladesh Limited — Mar 2022 – Feb 2024
- Developed and optimized system functionalities, contributing to seamless enterprise-scale user experience.
- Enhanced administrative controls and compliance features, aligning with industry standards.
- Resolved critical bugs, improving system stability and long-term reliability.

Software Engineer Intern — Orbitax Bangladesh Limited — Sep 2021 – Feb 2022
- Ported .NET microservice to Go for R&D purposes, reducing response latency by 60% and memory usage by 70%.

Projects & Research Contributions

- **Cirq (Google Quantum AI)** – Contributor. Clarified documentation and parameterization of CZPowGate, merged into the main repository (2024). PR Link
- **microOS (GitHub)** – Minimal OS with loader, bootstrap, IDT, and kernel. Runs on QEMU/bare metal; demonstrates systems engineering fundamentals. Link
- **XatBot (Orbitax)** – AI-powered tax assistant grounded in 70k+ legal documents; integrates retrieval-augmented generation for domain-specific accuracy. Link
- **GenericAI (GitHub)** – ReAct-based assistant using LangChain + Gradio; supports reasoning, web browsing, and document summarization. Link

Education

Bachelor of Engineering in Software Engineering — Shahjalal University of Science and Technology
Graduated 2021 · CGPA: 3.34/4.0

Certifications & Training

ArchitectXpress (8-week Software Architecture hands-on course, Geeky Solutions) · Cloud Engineering with Google Cloud · Deep Learning (DeepLearning.AI) · Blockchain (University at Buffalo) · Penetration Testing & Ethical Hacking (Cybrary) · Digital Forensics & Incident Response (BASIS Tech)