Aukik Aurnab

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EDUCATION

Brac University   Dhaka
Computer Science & Engineering, BSc - Result: CGPA- 3.93/4   *2019-01-01 — 2023-02-01*

Notre Dame College   Dhaka
Higher Secondary School Certificate - Result: GPA - 5/5 (A+ in all subjects)   *2016-06-01 — 2018-03-01*

South Point School & College   Dhaka
Secondary School Certificate - Result: GPA - 5/5 (A+ in all subjects)   *2014-01-01 — 2016-02-01*

WORK EXPERIENCE

Bismo Technologies Ltd   Dhaka
Chief Technology Officer   *2023-05-01 — Present*

- Designed and developed **15 web applications** and **9 AI solutions** including **chatbots, agents, scrapers, ML pipelines and automation systems** for paying clients
- Built an expense management solution with **100+ standalone features**
- Built a ticketing platform for events with **6,000+ users**.
- Built and Managed entire **Infrastructure, CI/CD, Monitoring pipelines** on **AWS/Azure** cloud for **3 different companies.**
- Developed complete solutions by **communicating with customers**, **analyzing requirements**, **designing the product**, and **developing the entire application**.
- Led a team of **16 people**

Katerout Inc   Delaware, USA
Chief Technology Officer   *2024-02-01 — Present*

- Built the entire MVP from scratch for a **catering marketplace** platform with **active customers** placing orders regularly.
- Maintain cloud architecture in **Azure** using **Terraform** and **Ansible**.
- Set up CI/CD pipelines with **Jenkins** and implemented monitoring tools such as **Prometheus** and **Grafana**.
- Led a team of **10 people**

Alldoc Technologies Ltd   Dhaka
System Engineer   *2022-01-11 — 2023-05-01*

- Analyzed business and technical requirements to develop robust backends using **Express**, **Prisma**, and **PostgreSQL**.
- Worked with **HTTP/3 protocols** (QUIC, TLS 1.3, HTTP/2).
- Managed version control with **GitHub**.
- Handled cloud hosting on **AWS** like **EC2**, **RDS**.
- Built caching techniques with **Redis** and implementing pub-sub systems with **RabbitMQ**.

PROJECTS

Bismo - Fullstack Enterprise Finance Management Software, [React.js, Express.js, Postgresql, Prisma ORM, Tailwind CSS, Azure App Service, Zod, Tanstack Query, Typescript, Docker, Azure Container Registry, Azure Blob Storage] (app.sharefable.com/embed/demo/bismo-expense-manageme-1cjbop7pcu75w92v)   2023-12-01 — 2024-03-01

- **Bismo** had **over 20 paid users** and **100+ standalone features** that helps make businesses more efficient.
- **Key Features**: Projectbased Expense/Perdiem/Advance Submission, Expense/Advance approval and reimbursement workflow, Charts of accounts, Vendor Bills Management (Receivables), Invoice Management (Payables) and Customer Tracking, Donor/Investment Management, Financial Reports and automated double entry, Employee salary disbursement tracking, Employee and Company document management

- **My Role:** Led the entire project by designing the architecture and database, developing the backend, deploying and maintaining the application on Azure. Built CI/CD pipelines using Azure Pipelines, integrated APIs into the frontend, contributed to frontend coding (React.js) and UX flow, implemented new ideas, and validated them through customer feedback.

Octobrain - A Complete Social Media for Students, [Express.js, Svelte, Postgresql, Prisma ORM, Azure VM, Docker, Azure blob storage, Jenkins, Terraform, Prometheus, Grafana, Ansible] (app.sharefable.com/embed/demo/octobrain-social-netwo-vih81zso4cajiwtb)   2024-06-01 — 2024-09-01

- **Octobrain** is a lively **social media** network built solely for students which has around **1,000 users**.
- **Key Features**: It provides features like post creation, comment writing, reaction selection, announcement display, connection making, and notification delivery, along with ad placement. In addition, Octobrain improves student life by hosting activities such as workshops, competitions, and events while also allowing easy access to course materials.
- **My Role**: Designed the database and software architecture, developed the entire backend, created an admin panel using Svelte and integrated it with the backend, built a CI/CD pipeline using Jenkins, and hosted and maintained the application on Azure using Terraform and Ansible.

AI Project Manager, [OpenAI, Azure AI Foundry, Python, FastAPI, Qdrant, LangChain, Streamlit, Pandas, Pydantic, Redis, Azure, Pulumi] (app.sharefable.com/embed/demo/ai-powered-task-manage-y7eof80ukr7xm3kl)2025-02-07 — 2025-03-01

- This **AI project manager** was created for a **paid client** so that they can improve their work processes.
- **Key Features**: It collects the client's current tasks from ClickUp and produces clear reports based on weekly and monthly goals. The tool sorts tasks, sets priorities, finds possible problems and blockers and even names team members who may help or take responsibility because it knows the team's setup in ClickUp. In addition it has a chatbot that talks with the client letting them ask questions and receive guidance at any time.
- **My Role**: Did everything from scratch which includes client communication, requirements gathering, planning, coding and deployment.

Bismo Ticketing - Ticket Booking and Verfication Platform, [Nest.js, React.js, TypeScript, Postgresql, Prisma ORM, Azure VM, Docker, Pulumi, Ansible] (ticketingadmin.bismoapps.com/sign-in?redirect=%2Fsign-in)2025-02-01 — 2025-02-20

- **Bismo's ticketing system** is simple yet powerful, now live across multiple events handling **6,000+ users** booking tickets.
- The platform can be seamlessly integrated into any event website, allowing users to book tickets by simply completing a form. Upon booking, users receive their e-tickets via email. These tickets contain QR codes that event organizers can verify using the built-in QR scanner feature of the Bismo platform, creating a complete end-to-end ticketing solution.
- **My Role**: Designed, built, deployed and maintained the entire thing as a solo dev.

CERTIFICATIONS

Microsoft Certified: Azure Data Fundamentals ⸺
Foundational concepts of Azure data services, encompassing databases, analytics, and data storage technologies *2023-04-01*

- https://www.credly.com/badges/4ffce931-726c-42fb-8389-1edbd10f0c6f/public_url

Machine Learning Specialization : Coursera ⸺
Credential ID: PVF5P5TEDFYW Proficient use of various machine learning techniques, algorithms, and applications through comprehensive coursework and practical exercises. *2023-05-01*

- https://coursera.org/share/614ec6c072e2ea68159adcb2b0310cda

IELTS Academic ⸺
Overall Band Score - 7.5/9 *2023-03-10*

SKILLS

- **Web Development**: Express.js, FastAPI, HTTP3 protocols, OpenAI APIs, Supabase, React, Next.js, SvelteKit, Tailwind CSS, Redis, RabbitMQ
- **System Engineer**: System architecture, Database engineering, Test automation, Monitoring Resources, Bottleneck identification, Wireshark, Fiddler, Prometheus, Grafana
- **Cloud Architect**: Azure, Cloudflare, Nginx, Ansible, Azure Pipelines, Jenkins, Terraform, Pulumi, Git
- **Database Management**: PostgreSQL, MongoDB, Redis, Prisma ORM
- **AI & Automation**: Selenium, Playwright, N8N, Langchain, Streamlit, RAG, Prompt engineering, Pinecone, Qdrant