

# Aukik Aurnab

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## EDUCATION

<b>Brac University</b> <i>Computer Science &amp; Engineering, BSc - Result: CGPA- 3.93/4</i>	Dhaka 2019-01-01 — 2023-02-01
<b>Notre Dame College</b> <i>Higher Secondary School Certificate - Result: GPA - 5/5 (A+ in all subjects)</i>	Dhaka 2016-06-01 — 2018-03-01
<b>South Point School &amp; College</b> <i>Secondary School Certificate - Result: GPA - 5/5 (A+ in all subjects)</i>	Dhaka 2014-01-01 — 2016-02-01

## WORK EXPERIENCE

<b>Bismo Technologies Ltd</b> Chief Technology Officer	Dhaka 2023-05-01 — Present
<ul style="list-style-type: none"><li>Specialize in <b>system architecture</b> and <b>backend development</b> using <b>Express</b> and <b>Prisma</b> for <b>web-based enterprise software</b>.</li><li><b>Lead</b> a team of engineers in <b>developing products</b> for various companies.</li><li>Focus on <b>database engineering</b>, emphasizing <b>PostgreSQL</b> best practices.</li><li>Implement test automation with <b>Jest</b>, <b>Selenium</b>, and <b>Playwright</b>.</li><li>Utilize tools like <b>Wireshark</b> and <b>Fiddler</b> to discover bottlenecks and minimize latency.</li><li>Manage infrastructure using <b>Terraform</b> and <b>Ansible</b>; deploy applications with <b>Docker</b> containers, <b>Kubernetes</b>, <b>Jenkins</b>, and <b>Azure Pipelines</b> for <b>CI/CD</b>.</li><li>Develop frontends using <b>React</b> and <b>Svelte</b>; integrate OpenAI APIs via <b>Langchain</b>, leveraging <b>RAG</b> techniques.</li><li>Implement reverse proxy with <b>Nginx</b> and manage <b>CDNs</b> with <b>CloudFlare</b>.</li></ul>	
<b>Katerout Inc</b> Chief Technology Officer	Delaware, USA 2024-02-01 — Present
<ul style="list-style-type: none"><li>Built the entire MVP from scratch for a <b>catering marketplace platform</b>.</li><li>Maintain cloud architecture in <b>Azure</b> using <b>Terraform</b> and <b>Ansible</b>.</li><li>Set up CI/CD pipelines with <b>Jenkins</b> and implemented monitoring tools such as <b>Prometheus</b> and <b>Grafana</b>.</li></ul>	
<b>Alldoc Technologies Ltd</b> System Engineer	Dhaka 2022-01-11 — 2023-05-01
<ul style="list-style-type: none"><li>Analyzed business and technical requirements to develop robust backends using <b>Express</b>, <b>Prisma</b>, and <b>PostgreSQL</b>.</li><li>Worked with <b>HTTP/3 protocols</b> (QUIC, TLS 1.3, HTTP/2).</li><li>Managed version control with <b>GitHub</b>.</li><li>Handled cloud hosting on <b>AWS</b> like <b>EC2</b>, <b>RDS</b>.</li><li>Built caching techniques with <b>Redis</b> and implementing pub-sub systems with <b>RabbitMQ</b>.</li></ul>	

## PROJECTS

<b>Enterprise Finance Management Software - Bismo</b> , [React.js, Express.js, Postgresql, Prisma ORM, Tailwind CSS, Azure App Service, Docker, Azure Container Registry, Azure Blob Storage] ( <a href="https://bismoexpense.bismoservices.com">https://bismoexpense.bismoservices.com</a> ) 2023-12-01 — 2024-03-01
- Led the entire project by designing the architecture and database, developing the backend, deploying and maintaining the application on Azure. <ul style="list-style-type: none"><li>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.</li></ul>
<b>Catering Marketplace - Katerout</b> , [Express.js, Vanilla HTML/CSS, Postgresql, PostGIS, Prisma ORM, Azure App Service, Docker, Azure Container Registry, Azure blob storage, Stripe API] ( <a href="https://katerout.com">https://katerout.com</a> ) 2024-04-01 — 2024-05-15

- Built the entire application from scratch, which includes: designing the database and system architecture, backend and frontend development, implementing PostGIS for proximity search based on location, integrating Stripe and third-party logistics APIs,

- Deploying on Azure and maintaining CI/CD pipelines, building the admin panel for Katerout (frontend in Svelte), testing the app, gathering requirements, and building the UI/UX based on those requirements.

**Edtech Platform - Octobrain**, [Express.js, Vanilla HTML/CSS, Postgresql, PostGIS, Prisma ORM, Azure App Service, Docker, Svelte, Tailwind CSS, Azure Container Registry, Azure blob storage] (<https://octobrain.org>) 2024-06-01 —

- Designed the database and software architecture, developed the backend and frontend, 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 Agent and CV analyzer - Smartgrad**, [FastAPI, Streamlit, Langchain, Qdrant, RAG, mongodb, Azure Blob Storage, Azure Functions] (<https://smartgrad.org>) —

- Developed a chatbot microservice using FastAPI, RAG, and Qdrant with a custom knowledge base, and utilized Streamlit to create a visual chat widget.

- Created an Azure Function to analyze CVs and provide recommendations for improvement based on the custom knowledge base.

## CERTIFICATIONS

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### 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](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

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- **Web Development:** Adept in API development with **Express.js** and **FastAPI**, as well as with **HTTP3** protocols and implementing **OpenAI APIs**. Skilled in frontend development with **React**, **Next.js** and **SvelteKit**, and in styling using **Tailwind CSS**. Implemented **Redis** for caching and **RabbitMQ** for pub-sub work.
- **System Engineer:** Expert in **system architecture**, **database engineering**, **test automation**, **monitoring** and **bottleneck identification**. Proficient with tools like **Wireshark**, **Fiddler**, **Prometheus** and **Grafana**.
- **Cloud Architect:** Skilled in cloud hosting, reverse proxy, CDN implementation, version control, Docker containerization, and Kubernetes. Experienced with **Azure**, **Cloudflare**, **Nginx**, **Ansible**, **Azure Pipelines**, **Jenkins**, **Terraform**, and **Git**.
- **Database Management:** Proficient in managing **PostgreSQL** and **MongoDB** databases, adept at leveraging **Prisma ORM** and optimizing SQL queries for relational database operations.
- **Web Scrapping:** Versed in web scraping techniques utilizing **Selenium** and **Playwright** by using proxy servers. Navigating online environments to extract valuable data efficiently and accurately.
- **ML and LLM Integration:** Skilled in crafting data analysis pipelines and seamlessly developing and integrating machine learning and language model (**LLM**) capabilities into diverse projects using tools like **Langchain** and **Streamlit**. Developed custom knowledge base LLM implementations utilizing **RAG** techniques, prompt engineering, and vector databases such as **Pinecone**, **Qdrant**, and **FAISS**