



## DIP SAHA

### Full Stack Developer & AI Solutions Architect

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#### PROFESSIONAL SUMMARY

Innovative Computer & Communication Engineering student with specialized expertise in **AI Software Development** and **Full Stack Web Architecture**. Proven record of building complex, data-driven applications, including **Custom Admin Panels**, **POS Systems**, and **RAG (Retrieval-Augmented Generation) Chatbots**. Passionate about bridging the gap between advanced backend logic and pixel-perfect frontend interfaces using Python, Next.js, and Gemini AI.

#### TECHNICAL SKILLS

- **AI & Backend:** Python, LangChain, Google Gemini API, OpenAI API, Pinecone (Vector DB), Streamlit, PHP, MySQL.
- **Frontend Development:** React.js, Next.js, Tailwind CSS, HTML5, JavaScript (ES6+), Figma-to-Code.
- **Tools & Platforms:** VS Code (Codeium/Windsurf), Git/GitHub, Vercel, cPanel.

#### KEY PROJECTS & FREELANCE EXPERIENCE

##### Shakh's Makeover - Full Stack E-Commerce & Admin Platform | *Live Project*

- **URL:** [www.shakhsmakeover.site](http://www.shakhsmakeover.site)
- Architected a complete web application with a **Custom Admin Panel**, giving the client full control over Products, Services, Promo Codes, and User Management.
- Engineered complex backend logic for automated **Custom Notifications** and secure user authentication.
- Delivered a high-performance, responsive frontend ensuring a seamless booking experience.

##### Electronics Shop POS (Point of Sale) System | *Full Stack Software*

- **URL:** <https://shop-pos-demo.netlify.app/> (Demo Link)
- Developed a custom POS solution tailored for electronic retail, managing **Real-time Inventory**, Sales History, and Warranty Tracking.
- Built dynamic reporting features to track daily revenue, stock alerts, and print invoices.
- Optimized the database structure to manage thousands of transactions without latency.

##### Custom AI Chatbot & Agent Development | *Freelance / Fiverr*

- Developed a "Knowledge Base" chatbot using **Python, LangChain, and Google Gemini Pro** that reads custom PDF documents and answers user queries with 100% accuracy (RAG).
- Integrated **Pinecone Vector Database** to enable real-time semantic search for business clients.

## Dipa Saha - Full Stack Personal Portfolio & Admin Platform | *Live Project*

- **URL:** [dipa.ami.bd](http://dipa.ami.bd)
- Architected a complete web application with a **Custom Admin Panel**, giving the client full control over the site.
- Engineered complex backend logic for automated **Custom Notifications** and secure user authentication.
- Delivered a high-performance, responsive frontend ensuring a seamless booking experience.

## Viral Content Lab - Full Stack AI Idea generator site & Admin Platform | *Live Project*

- **URL:** [vcl.free.nf](http://vcl.free.nf)
- Architected a complete web application with a **Custom Admin Panel**, giving the client full control over the site, users, subscriptions, and website visits.
- Engineered complex backend logic using Groq API key to generate ideas and secure user authentication.
- Delivered a high performance, responsive frontend ensuring a seamless experience.

**Demo Projects:** Microjob Site: <https://microjob-demo.netlify.app/>

**Ongoing Project:** An animal welfare website. (In progress)

## **EDUCATION**

### **B.Sc. in Computer & Communication Engineering** *International Islamic University Chittagong (IIUC)*

- *Session:* 2022 – Present
- *Relevant Coursework:* Programming (C/C++), Data Structures, Digital Communication, Microprocessor Design.

**Higher Secondary Certificate (Science)** *Omargani M.E.S. College* | GPA: 5.00/5.00

## **LANGUAGES**

- **English:** Professional Working Proficiency
- **Bengali:** Native