

AYUSHMAN BHATTACHARYA

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🌐 elixpo.com

Education

JIS University <i>B.Tech Computer Science, GPA: 9.6</i>	2023 – Present <i>Kolkata, India</i>
TIGPSH <i>Science (PCM), 90%</i>	2021 – 2023 <i>Kolkata, India</i>
TIGPSH <i>General, 95%</i>	2009 – 2020 <i>Kolkata, India</i>

Experience

GDG JISU <i>Web Dev Associate</i>	2024 – 2025 <i>Kolkata, India</i>
– Worked on web solutions and community projects under GDG JIS University.	
Machine Learning & Devops Engineer <i>Research & Contributions</i>	2023 – Present <i>Remote/Berlin</i>
– Contributed ML models and collaborated on an OSS Pollinations!	
Modrinth <i>Mod Developer</i>	2023 <i>Remote</i>
– Developed Minecraft Mods using Java Fabric API.	
Discord <i>Bot Developer</i>	2024 - Present <i>Remote</i>
– Built and deployed a Discord bot for real-time image generation.	
GSSOC Mentor <i>Mentor</i>	2025 <i>Remote</i>
– Mentored open-source contributors during GSSOC 2025.	
OSCI Mentor <i>Mentor</i>	2025 <i>Remote</i>
– Mentored open-source contributors during OSCI 2025.	
GDG Campus Organiser <i>Campus Lead</i>	2025 <i>Remote</i>
– Became the GDG on Campus organiser for JIS University.	

Projects

Elixpo Art Website – Web interface for AI art generation.	2023
Full Stack Notes Application <i>Personal Project</i>	2023 <i>Remote</i>
– Developed a full-stack notes application using Vanilla JS	
Full Stack Chat Application <i>Personal Project</i>	2023 <i>Remote</i>
– Developed a full-stack chat application using Vanilla JS	
Elixpo Discord Bot	2024

- Discord.js bot for real-time AI image generation.

Cypher

2024

- AES-based encrypted password manager.

8-Bit Computer CPU | GitHub

2024

- RISC-V based breadboard CPU.

Full Stack Blogging Website

2025

Personal Project

Remote

- Developed a full-stack blogging website using Vanilla JS

Python Text to Speech service

2025

Personal Project

Remote

- Developed a Python Text to Speech service using Flask and built a custom HIGGS TTS model for natural inference.s

Image Compression Algorithm | GitHub

2025

- Comparative study on compression algorithms.

Elixpo Search | GitHub

2025

- LangChain-supported semantic search schema.

Leadership & Volunteering

Google Developer Groups (GDG) | *On Campus Organizer*

Aug 2025 – Present

- Leading GDG on Campus community events, developer workshops, and hackathons.

GirlScript Summer of Code (GSSoC) | *Mentor*

2025

- Guided open-source contributors during GSSoC 2025.

Open Source Connect India | *Mentor*

Jul 2025

- Mentored contributors in OSS projects.

Hexafalls Hackathon | *Community Manager*

2025

- Organized and managed hackathon events.

Technical Skills

Languages: Python, Java, Go, SQL, C, HTML5, CSS, JavaScript, VHDL

Developer Tools: AWS, Azure, Docker, Jira, Git, Postman, PowerBI, Kubernetes

Libraries/Frameworks: ReactJS, NextJS, VueJS, NodeJS, Spring Boot, PostgreSQL, LangChain

Domains: Full Stack Development, MLOps, DevOps, Low-level Programming, System Design

Awards

Gold SOF NCO	2019
– Awarded Gold medal in SOF National Cyber Olympiad.	
LSA exe.BIT Runners	2020
– Secured runner-up position at exe.BIT, Laxmipat Singhania Academy.	
Techverse 2.0 Winner	2023
– Winner at GNIT Techverse 2.0.	
Techverse 3.0 Winner	2024
– Winner at GNIT Techverse 3.0.	
3rd, 2nd SOF NCO	2014, 2018
– Secured 3rd and 2nd positions in SOF National Cyber Olympiad.	
Java Programming CBT	2025
– Completed NPTEL Java Programming Computer Based Training.	
Hacktoberfest OSS	2024
– Contributed to open-source projects during Hacktoberfest.	
Hackathon Codecrafters Domain Winner	2023
– Domain winner at IEM Codecrafters Hackathon.	

Publications

Predictive Analysis of Autism Spectrum Disorder (ASD) Traits: Integrating Supervised Machine Learning and Exploratory Data Insights Preprint	2025
– Applied supervised ML and data analysis to ASD trait prediction.	
Decoding the Vulnerabilities of Large AI Models: Practical Demonstrations and Defensive Strategies Against Poisoning, Extraction, and Prompt Injection Attacks Preprint	2025
– Analyzed and demonstrated attacks on large AI models with defensive strategies.	
Exploring Microcode CPU Instructions with RISC 8 Bit Breadboard Computer International Journal of Enhanced Research in Science Research and Engineering	2025
– Published research on microcode CPU instructions using a RISC 8-bit breadboard computer.	