Arnab Dev

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EDUCATION

The University of Texas at Dallas, Richardson, TX   August 2024 – Present
Bachelor of Science, Computer Science   **Expected Graduation Year:** May 2027
- Full-Tuition Academic Excellence Scholarship recipient.   **GPA:** 4.00

TECHNICAL SKILLS

Programming Languages: Python, C/C++, JavaScript/TypeScript, Java
Frameworks/Tools: HTML, CSS(Tailwind, SCSS), React, Next.js, Node.js, Express.js, Git, MongoDB, SQL, AWS, Docker
Others: Canva, Figma, XML, MS

WORK EXPERIENCE

University of Texas at Dallas, Richardson, Texas   October 2024 – Present
Undergraduate Research Assistant
- Working on dynamic analysis and fuzzing at professor Shiyi Wei's lab.

Bondstein Technologies Limited, Dhaka, Bangladesh   June 2024 – August 2024
Software Developer Intern
- Worked on building front end website from scratch, which was used as a sample to secure government project tender and on building full-stack website for NRI Jewelry. Used React, Next.JS, Node.JS, HTML, CSS(Tailwind).
- Optimized front end interface using memorization (React.memo) to reduce unnecessary re-renders resulting in reduction in 30% reduction in time taken to render components.

Edification Coaching Center, Dhaka, Bangladesh   October 2022 – December 2023
Computer Science Teaching Assistant
- Taught python fundamentals to students of class 9 to class 11
- Assisted senior computer science teacher to teach his courses of GCSE O level Computer Science(2210).

PROJECTS

HydraWatch   November 2024
Tools Used: Flask, Next.js, ML
- Web app that can visualize pipeline data through an interactive dashboard to help lease operators make informed decisions quickly. Key features include detection and prediction of hydrate formation based on current gas injection metrics. More details: https://devpost.com/software/lorem-ipsum-zxuv8p

LegalAI (https://legalai-test.netlify.app/)   September 2024
Tools Used: React, Amazon Q, SageMaker, and Bedrock
- The chatbot is designed to handle legal inquiries, offering solutions for complex legal scenarios. It also features advanced document drafting and analysis capabilities, allowing users to upload legal documents and receive detailed insights and guidance through the AI-powered analysis provided by LegalAI.
- Developed during the **AWS Breaking Barriers Hackathon.**

Kormi App (https://kormi.netlify.app/)   August 2024-Present
Tools Used: MERN Stack(React, Node.js, MongoDB)
- Full stack project where domestic workers can be hired.

Other projects (https://arnabdev.netlify.app/projects)

ORGANIZATIONS

AIMD Club UT Dallas, Member   October 2024 – Present
Next Initiative Foundation, Founder, President, Web Developer   August 2020 – August 2024
- Recruited and led 300+ volunteers, chief organizer at multiple fund-raising youth events of 4000+ participants. Our work has been featured in national TV channels.

ESS STEM Club, President   October 2021 – January 2024
- Leader during growth from 50 members to 200+ members, making it the school's largest academic club. Chief organizer of intra-school events.
- Prepared question sets on Mathematics, Physics, Chemistry, ICT, Programming, and Astrophysics for olympiads.

ACHIEVEMENTS

26th position across the Nation, Bangladesh Olympiad in Informatics   February 2024
22nd position across the Nation, Bangladesh Olympiad in Informatics   February 2023