ABDULLAH AL JUBAER GEM

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EDUCATION

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)-OIC   2022 – June 2026 (Expected)
BSc. in Computer Science And Engineering   *CGPA: 3.70*
- **Relevant Coursework:** Object Oriented Programming , Machine Learning , Data Structures , Algorithms , Software Engineering and OOD , Database Management System , Structured Programming , Linear Algebra , Web Architecture , Operating Systems, Probability and Statistics , Computer Graphics and Multimedia Systems , Visual Programming , Numerical Methods

PABNA CADET COLLEGE   2021
Higher Secondary Certificate (HSC)

PABNA CADET COLLEGE   2019
Secondary School Certificate (SSC)

SKILLS

Programming Languages: Python, Java, C/C++, JavaScript, SQL, Bash
Web Development: HTML, CSS, React.js, Node.js, Express.js, Django, Flask, Firebase, Authentication
Database Systems: PostgreSQL, MySQL, MongoDB , Convex
Software Development & Tools: Git, Linux, JavaFX, Swing, REST APIs, Figma
Data Science & Machine Learning: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, OpenCV, Power BI, TensorFlow, PyTorch

PROJECTS

No-Brainer: AI-Powered Fitness Program Generator | *Next.js, React, TailwindCSS, Convex, Clerk, Google Generative AI, VAPI*
- Personalized AI fitness app generating workout and diet plans with voice assistant support
- Secure user authentication with Clerk and real-time backend using Convex
- Deployed on Vercel with a modern cyberpunk-styled UI

Redrick-Routinson: University Management Webapp | *Python, React, Chakra UI, Flask, Firebase*
- Full-stack university platform with role-based dashboards for admins, teachers, and students
- Genetic algorithm-based scheduling and automated exam seat planning with QR attendance
- Features for class swapping, event management, forums, and Lost And Found
- Built with React, Chakra UI frontend and Python Flask backend

Student Marketplace | *React, Firebase, Vite, GROQ API*
- Hackathon project enabling students to trade goods with real-time chat and bidding
- Integrated AI-powered item analysis and chatbot using GROQ API
- Role-based authentication and admin controls via Firebase

Wanderer: Travel Community Platform (Web Prototype) | *React, TypeScript, TailwindCSS, Framer Motion, Vite*
- Responsive travel webapp prototype featuring trip planning, community, and AI chatbot
- Static data-driven UI demonstrating travel maps, event calendars, and emergency tools
- Built with React, TailwindCSS, and Framer Motion for modern web experience

Ruby: Learn the Rubik's Cube | *Java, JavaFX, Swing*
- Educational desktop app for stepwise Rubik's Cube solving with interactive visualizations
- Supports manual cube state input and automated solution demonstration
- Developed using JavaFX and Swing as part of Visual Programming Lab

The Continental: Hotel Management System | *React, Node.js, MySQL*
- Hotel management system with room booking, check-in/out, and admin controls
- Built with React frontend, Node.js backend, and MySQL database
- Implemented JWT authentication and modular architecture

ACHIEVEMENTS

- **Runners-Up – Coderush 2025**   *Intra-IUT Hackathon*
  Developed a full-stack solution in a competitive 24-hour hackathon environment; recognized for innovative design and efficient implementation.

- **Participant – KUET Bitfest 2025 Datathon**
  Successfully tackled real-world data challenges among national competitors, showcasing strong analytical and machine learning skills.

- **Participant – SP Cup**   *IEEE Signal Processing Cup*
  Took on a real-world challenge to spot deepfakes from real data, building and fine-tuning the best machine learning models among international teams, and published a paper sharing our approach and findings **[Paper]**

SOCIAL ENGAGEMENTS

Student Member: Association of Pabna Ex-Cadets(APEC)
University Clubs: IUT Computer Society
Hobbies: Reading, Watching TV Series and Movies , Writing
Sports: Basketball, Table Tennis , Badminton