Khushi Bothra

Roll No.:210102046
B.Tech - Electronics and Communication Engineering
Minor in Mathematics
Indian Institute of Technology Guwahati

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	8.35 (Current)	*2021 - present*
Senior Secondary	CBSE Board	98.4%	*2021*
Secondary	CBSE Board	97.5%	*2019*

Experience

- **Barclays Bank PLC** — *May 2024 - July 2024*
  Software Developer Intern | Onsite, Pune — *Certificate*
  - Developed a **CI/CD pipeline** using **Jenkins** and **Groovy** to automate the identification of jobs not run in the past one year.
  - **Optimized** server migration efficiency by flagging obsolete jobs, resulting in reduction in migration time and resource usage.
  - Integrated **BitBucket** and **Git strategies** for version control, ensuring efficient collaboration and code integrity across the team.
  - Leveraged **Jenkins API** to extract build details regarding jobs to categorize them based on source, and generated detailed reports in CSV format to analyse their performance, improving decision-making on job retention.

Projects

- **DormHub: Disang Hostel management system** — *Jan. 2024 - Mar. 2024*
  Self-Project — *Github*
  - Developed a digital hostel management system for **1300+** students with **CRUD** functionalities and role-based access for users.
  - Added features for online attendance system, real-time hostel event updates, facilities management, mess feedback, and streamlined complaint handling to enhance user engagement and administrative efficiency.
  - Implemented using **React.js** and **Redux** for State management, **Node.js** for backend, **MongoDB** database & **JWT** Authentication.

- **Udgam 2023 Website** — *Nov 2022 - Jan 2023*
  The Annual Entrepreneurship Summit of IIT Guwahati — *Website*
  - Developed and deployed the **UDGAM** website using **React.js,** streamlining event operations for IIT Guwahati's annual E-Summit.
  - Built key features for **10,000+** visitors enabling efficient event registration, merchandise sales, and pass purchases.
  - Implemented the backend using **Node.js** and **Express.js**, utilizing **MongoDB** for data management, **JWT** for secure authentication, and **Razorpay** for seamless payment processing, ensuring a robust platform and enhancing user experience.

- **AlgoLens: Provides dynamic simulation of Operating System Algorithms** — *Sept 2023 - Oct 2023*
  Self-Project — *Website*
  - Developed a web-based app that provides **visual representation** of key algorithms of **CPU scheduling**, memory allocation, and disk scheduling, such as **FCFS, SRTF** and **Round-Robin**, **Two-level FCFS**, providing deeper understanding of abstract concepts.
  - Leveraged **React** and **JavaScript** to create intuitive visualizations of complex **OS algorithms**, making abstract concepts more accessible and enabling the app to serve as a valuable educational tool enhancing users' engagement and comprehension.

Achievements

- **Barclays PPO 2024**: Received a Pre-Placement Offer after successful completion of 8-weeks onsite internship. — *2024*
- **Codeforces**: Achieved a Maximum Rating of 1601 (Expert). — *Handle*
- **Codeforces**: Secured Global rank 474 among 20k+ participants in Round 820. — *Handle*
- **Leetcode**: Achieved a Maximum Rating of **1533**. — *Handle*
- **JEE - Advance**: Secured All India Rank **4129** among **0.15 million** candidates. — *2021*
- **JEE - Mains**: Secured **99.6** percentile, among **1 million** students appearing for the test. — *2021*
- **CodeChef**: Secured Global rank **60** among **3.8k+** participants in August Long Challenge 2022 — *2021*
- **Computer Science**: Achieved a **100%** score in **Computer Science** for **four consecutive years** from Classes 9th to 12th. — *2021*
- **State Rank 1**: Received **highest percentage** in Gujarat in Class 12 Exams, CBSE Board. — *2021*

Technical Skills

Programming: C, C++ , Python, JavaScript, Groovy*
Database Management: MongoDB*, MySQL

Web Technologies: HTML, CSS, Node.js, Express.js, React.js
Miscellaneous: Git, GitHub, Jenkins*, LaTeX

* Elementary Proficiency

Key Courses

- **Computer Science**: Data Structures & Algorithms, Computer networks, Pattern Recognition & Machine Learning, Blockchain
- **Mathematics**: Probability & Random Processes, Mathematical Statistics, Scientific Computing, Modern Algebra, Differential Geometry

Positions of Responsibility

- **Institute Secretary** | E-Cell, IIT Guwahati — *Apr 2023 - Apr 2024*
  - Led a **3-tier** team of **250+** students spearheading over **30** events, workshops, and competitions to promote entrepreneurship.
- **Startup Expo Head** | UDGAM (The Annual Entrepreneurship Summit of IIT Guwahati) — *Nov 2023 - Apr 2024*
  - Led a **50+** member team to organize **Northeast India's largest Startup Expo** at UDGAM, connecting **200+** startups with **20+** investors, attracting **1000+** attendees, and enabling mentorship and funding opportunities.