



Akhil

Computer Science & Engineering

Indian Institute of Technology, Kharagpur

18CS10070

B.Tech

Male

Examination	Institute	Year	CGPA/%
Graduation	IIT Kharagpur	2018-2022	8.93
Intermediate/+2	Cambridge School Rewari	2017-2018	93%
Matriculation	Cambridge School Rewari	2015-2016	10.0

INTERNSHIPS

- **Software Development Summer-Intern | Intuit India** (May'21-July'21)
 - Worked on designing a new approach for **workload-distribution process** for the TurboTax service
 - Used **Machine Learning** algorithms like regression for workload estimation model and created a distribution model to distribute the expert specific workload which reduced the customer serving time and improved expert utilization.
 - Received Pre-Placement Offer (PPO) with Excellent performance feedback during my summer internship
- **Software Development Co-Op Intern | Intuit India** (Jan'22-Present)
 - Worked on APIs with back-end technologies like Spring-Boot and Java for a internal chat platform.

AWARDS AND ACHIEVEMENTS

- Achieved **academic excellence** and got Department Change to Computer Science, by securing an **Institute Rank 11** (among 1400 students) and **department Rank 1** (among 60 students) in 1st year.
- Secured a **rank of 88** (IIT Kharagpur college rank-2) among 3500+ participating teams in the **ACM-ICPC Amritapuri 2020 Preliminary Round** and a **rank of 106** in ACM-ICPC Amritapuri 2020 Regionals Round.
- Secured **Global Rank 421** in Round-A of Google KickStart 2021 among 19000+ participants (Username:akhilchoudhary)
- Max rating of **1983** on CodeChef and **1689** on CodeForces platform (Handle: akhilchoudhary)
- Achieved a **rank of 102** (among 12000+ participants) in Codeforces round 690.
- Achieved a **rank of 80** (among 2000+ participants) in Codechef March Cook-off.

B.TECH THESIS

- **Biometric Security and Multiparty Authentication** (B.Tech Project | Guide: Prof. Debasis Samanta)
 - Worked with functioning and testing of some of the cryptographic hash functions like MD5,Blake-2 and SHA-256
 - Working on the web-app based implementation of **biometric-based** multi-user authentication system

COURSE PROJECTS

- **Mind-Match | Software Engineering, (CS29006)** (Jan'20-May'20)
 - Developed a Web Application using a MongoDB database,NodeJS as backend and Bootstrap for frontend, that helps in matching like - minded people in the community with similar interests and hobbies.
 - Employed industrial software development techniques including preparation of Software Requirement Specification (SRS), Data FlowDiagram(DFD) and Unified Modeling Language (UML) diagram.
 - **Technologies Used** : Backend - NodeJS | Frontend - HTML5, CSS3, Bootstrap | Database - MongoDB
- **Project Allocator | Database Management System, (CS43002)** (Mar'21-Nov'21)
 - Developed a web application using NodeJS and MySQL database to facilitate CGPA prioritized project allocation
 - **Tech Stack:** Backend - NodeJS | Frontend - HTML5, CSS3, Bootstrap | Database - MySQL
- **Hands Free Game Simulator, (ET60029)** (Aug'20-Dec'20)
 - Simulated the functioning of arrow keys of computer by detecting face movements using image processing
 - **Technologies Used** : python, open-cv, pyqt5 design tool.
- **Linux shell | Operating Systems, (CS39002)** (Mar'21-Nov'21)
 - Implemented an interactive Linux shell in C that runs as an application program using system calls like fork(), wait(). Supports piping, redirection, history, pwd indication and builtin commands like ls, echo, cd, etc
- **Peer-to-Peer Chat Application | Networks Lab, (CS39006)** (Mar'21-Nov'21)
 - Implemented a terminal based local network chat application which works on socket programming and system calls.

SKILLS AND EXPERTISE

- **Proficient:** C, C++, JavaScript, Python, HTML, CSS, MySQL, Data Structures and Algorithms, Web Development
- **Familiar:** Java, Verilog, OpenCV, Bootstrap, Git, Socket Programming, Wireshark, MIPS, Shell Scripting

POR & EXTRA-CURRICULARS

- **Mentor:** Mentored 4 first year CSE students, guided them on academic/extracurricular fronts. (Aug'21-Present)
- **NSS Unit Leader:** Led a team of around 35 freshmen and 30 sophomore students in awareness rallies, cleanliness drives. Taught Maths and Science subjects to class 6 to 9 students, conducted quizzes and interesting competitions. Got Bronze medal for teaching performance of Unit's literary team. (Jan'19-Dec'19)
- **Core Team Member** (Inter IIT Sports Meet, IIT Kharagpur) Spearheaded a 10 crew member team to organize a 9-day sporting extravaganza for Event Management and Accommodation. Collectively organized 548 sporting events, 9 cultural nights and 8 guest lectures with an overall participation of 3000+ students (Sept'19-Dec'19)