

Abhijay Mitra

Department of Electrical Engineering

Final Year Undergraduate at Indian Institute of Technology, Kharagpur

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EDUCATION

B.Tech	Institute	Grad Year	CGPA
Major → Electrical Engg. (Instrumentation) Minor → Computer Science and Engg.	IIT Kharagpur, India	2022	8.98 / 10 9.10 / 10

INTERNSHIPS

Software Engineering Intern | SALESFORCE

Summer' 21

- Aimed to recognize, analyse and store data automatically, directly from medical voice conversations.
- Developed a prototype app for healthcare registrars that mitigated their role in registering, updating or fetching patient details.
- Executed automatic conversation with patient (through phone call) without any manual intervention from registrar except confirmation of the patient data analysed from the conversation before saving the data, for update or new patient registrations.
- Languages used → Java, Javascript, Frameworks used → Spring Boot

Software Engineering Intern | PROFICIENT VISION SOLUTIONS

Winter' 19

- Aimed to **remove rain and fog** from **HD video streams** in **real time**.
- **Developed license for product** (encryption of machine details like MAC Id, hard disk id, date of installation) along with user provided details such as id, password, number of concurrent users, and unique details cameras to be granted access.
- Implemented the **RSA algorithm** from scratch for licensing the software, built the pre-processing steps of the fog removal code.
- Incorporated **histogram equalisation** and **stretching**, in **CUDA C** to enhance speed of computation multiple folds.
- Demonstrated the product at **WBP Telecom Office** under foggy conditions generated by smoke from fire.

COMPETITIONS

- **Won the InTurn Hackathon** organized by **Salesforce** for its interns. **2021**
- **Globally Ranked 70 in April Lunchtime Division 2** organised by Codechef **2021**
- **Globally Ranked 42 in Summer Code Challenge** held at Codechef **2021**
- **Globally Ranked 101 in June Cook-Off 2021 Division 2** organised by Codechef **2021**
- **Globally Ranked 443** in Round D in **Google Kick Start** **2020**
- Qualified for **Facebook Hacker Cup - Round 2**. **2020**
- Finalist of **Overnite Kshitij IIT Kharagpur**, a night long **ACM certified** team competitive programming contest **2020**
- **Globally Ranked 5** in June Data Structure and Algorithms Contest and **10** in August Easy organized by **Hackerearth** **2020**

AWARDS and ACHIEVEMENTS

- **Expert** with max rating **1877** on Codeforces. **2021**
- **5 star** with max rating **2030** on Codechef. **2021**

SKILLS and EXPERTISE

- Languages :** C, C++, Java, Python, Kotlin, Apex, SOQL, SOSL, HTML5, CSS, MATLAB, CUDA C, Javascript, TypeScript, Octave, React JS, JQuery, PHP, Assembly Language (AVR Micro - controller)
- Platforms:** Salesforce, Github, Heroku
- Databases:** PostgreSQL, MongoDB, MySQL
- Frameworks:** Spring, Spring Boot, Maven, Spring MVC, Hibernate, Bootstrap, Thymeleaf Lightning Web Components, Aura Components
- Others:** Git, REST API, Bulk API, SOAP API, Postman, XAMPP, SOAP UI, Software Development Life Cycle, AWS, Metamind Einstein, Amazon Comprehend, Google Cloud, Multithreading, Number Theory, Cryptography, Image Processing, Computer Vision, Parallel Programming, Web Development, Machine Learning, Competitive Programming, Amazon Web Services, Computer Architecture, Operating System, NP Algorithms