Abhijay Mitra

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EDUCATION

B.Tech	Institute	Grad Year	CGPA
Major → Electrical Engg. (Instrumentation) **Minor → Computer Science and Engg.**	IIT Kharagpur, India	2022	**8.83 / 10** **8.84 / 10**

EXPERIENCE

Associate Member of Technical Staff (Software Engineering) | SALESFORCE   June '22 - present

- Built **well-tested reusable customer-facing features** on top of **business entities** owned by the team **Financial Services Cloud**.
- Integrated **Entreprise Product Catalog** with Service Process Studio (SPS) by **exposing** the **Process Definitions as Products** to leverage the **Access Control** capabilities **ensuring scalability** as the business expanded through measures like **junction entities**.
- Pioneered the development of **crucial validation rules** within SPS to include **dependency checks**, **logical sequencing**, **integrity** and **efficiency** of service processes and adherence to **business rules**. Crafted robust and comprehensive **unit tests**, **functional tests**, **Jest** and **WebDriver** test suites for all code authored, ensuring the robustness, reliability, and functionality of software components.
- Resolved **user investigations**, **fixed bugs**, and addressed **test failures** within tight time constraints for existing product services.
- **Reviwed** multiple **pull requests** of various members of the team and also an active part of the **quality assurance** efforts.
- **Languages** used → Java, Javascript, **Frameworks** used → Spring, Maven, Bazel, **Databases** used → Postgres, MongoDB, SOQL

Software Engineering Intern | SALESFORCE   May '21 - July '21

- As a part of Health Cloud, aimed to **recognize**, **analyze** 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 analyzed from the conversation** before saving the data, for update or new patient registrations.
- Integrated **Google Speech to Text** and **Einstein NER** APIs to eradicate requirements of any manual intervention in the process.
- **Languages** used → Java, Javascript, **Frameworks** used → Spring Boot

Software Engineering Intern | PROFICIENT VISION SOLUTIONS   Nov '19 - Dec '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 equalization** and **stretching**, in **CUDA C** to enhance speed of computation multiple folds.

COMPETITIONS

- **Won** the **InTurn Hackathon** organized by **Salesforce** for its interns.   **2021**
- **Globally Ranked 311** in Round E in **Google KickStart**   **2021**
- **Globally Ranked 42** in **Summer Code Challenge** held at Codechef   **2021**
- Qualified for **Facebook Hacker Cup - Round 2**.   **2021**
- **Globally Ranked 101 in June Cook-Off 2021 Division 2** organized by Codechef   **2021**

AWARDS and ACHIEVEMENTS

- **Expert** with max rating **1877** on Codeforces (id → abj).   **2021**
- **5 star** with max rating **2030** on Codechef (id → abhj).   **2021**
- Secured All India Rank **2157 (99.9 percentile**) in **IITJEE Advanced**   **2018**
- Secured Rank **92 (99.9 percentile)** in **WBJEE**.   **2018**

SKILLS and EXPERTISE

Languages : C, C++, Java, Python, Kotlin, Javascript, TypeScript
Platforms: Salesforce, Github, Heroku, NodeJS
Databases: PostgreSQL, MongoDB, MySQL
Frameworks: Spring, Maven, React JS, JQuery
Others: Git, REST API, Postman, AWS, Metamind Einstein, Google Cloud, Machine Learning, Number Theory, Competitive Programming, Data Structures and Algorithms