

Abhinaba Chakraborty

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WORK EXPERIENCE

PREDIGLE | SOFTWARE ENGINEER

Aug, 2023 - Present | Chennai, India

Tech Stack: Django, Django Rest Framework, MongoDB, Python

- Worked on Predigle Precog backend API. Reviewing code and writing test cases for testing API.
- Working on building the backend API of a JIRA app, that helps companies to apply agile methodologies smoothly.

IMEC, BELGIUM | INTERNATIONAL SCHOLAR

March 2023 - July, 2023 | Leuven, Belgium | CSA Group

Tech Stack: C++17, SST Simulator, Python, Bash

- Researched efficient test case generation framework for verifying cache coherence protocols, ensuring rigorous testing and validation of these complex memory systems.
- Developed a Structural Simulation Toolkit component in **C++17** for efficient testing of the memory hierarchy module of SST.
- The component helps to reduce nearly 50% validation effort for the testing memory hierarchy modules.

BHARTI AIRTEL LTD | ENGINEERING INTERN

June 2022 - Sept 2022 | Bangalore, India | Ads Specialization Team

Tech Stack: PySpark, Python, Bash

- Developed a library to identify **data drift** in serving **personalized ads** at scale
- Library was built using **PySpark** and integrated with the existing proprietary platform, which will be used for performing **data drift detection** tasks.
- It is found to help **reduce** the manual effort and time by about 30% in monitoring the data pipeline and generating summary reports

EDUCATION

INDIAN STATISTICAL INSTITUTE, KOLKATA

M.TECH IN COMPUTER SCIENCE

June 2023 | Kolkata, WB

Master's thesis: Verification of cache coherence protocols.

Cum GPA: 72.6%

JADAVPUR UNIVERSITY

BE IN ELECTRICAL ENGINEERING

July 2020 | Kolkata, WB

BE Project: Classification of Contamination Level | **GITHUB**

Cum. GPA: 7.81 / 10.0

LINKS

Personal Page:// **Abhinaba**

Github:// **cohitherewer**

LinkedIn:// **cabhistr4**

SKILLS

Languages:

C, C++, Python, Javascript, TypeScript, HTML, CSS, \LaTeX

Libraries:

Django, SST Simulator, MongoDB, PySpark, PyLucene

Version Control:

Git, Github, BitBucket

Tools

VS Code, CBMC, Pycharm, XCode, Postman

COURSEWORK

GRADUATE

Design Analysis of Algorithms
Machine Learning
Distributed Computing
Information Retrieval
Specification & Verification of Programs

UNDERGRADUATE

Numerical Methods
Computer Lab
Microprocessor Lab
Control System Simulation