

# ARGHYADIP CHAKRABORTY

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## EDUCATION

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**Chennai Mathematical Institute**

MS Computer Science

July 2022 - Present

CGPA: 8.25/10

**Indian Statistical Institute, Bangalore**

Bachelor of Mathematics (Honours)

July 2019 - May 2022

Percentage: 84.46%

**Ramakrishna Mission Vidyapith, Deoghar**

All India Senior School Certificate Examination

Central Board of Secondary Education

June 2017 - April 2019

Percentage: 95.6%

## COURSES UNDERTAKEN

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### MS

Algorithms, Big Data and Distributed Computing, Blockchains, Concurrent Programming, Data Mining and Machine Learning, Information Retrieval, Mathematical Logic, Natural Language Processing, Programming Language Concepts, Functional Programming in Haskell, Theory of Computation

### BMath

Algebra, Analysis, Combinatorics, Complex Analysis, Computer Science, Differential Equations, Differential Geometry, Differential Topology, Graph Theory, Optimization, Physics, Probability Theory, Statistics, Topology

## PROJECTS

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### Secret Handshake over Untrusted Network

*Mentor: Siddharth Naithani, SubCom*

Summer Internship (May - July 2023)

[GitHub](#)

- Defined a protocol using ECDSA, ECDSA and AES to perform a Secret Handshake over Untrusted Network

*Tools: Rust*

### Android Rust Service

*Mentor: Siddharth Naithani, SubCom*

Summer Internship (May - July 2023)

[GitHub](#) [Blog](#)

- Integrated Rust native libraries into Android projects

*Tools: Rust, Java, Gradle, Docker*

### privacy-sexy-rs

*Mentor: Siddharth Naithani, SubCom*

Summer Internship (May - July 2023)

[GitHub](#)

- Built an open-source tool to enforce privacy & security best-practices

*Tools: Rust, YAML*

### Ethereum Word Game

*Instructor: Prof. Madhavan Mukund and Prof. S P Suresh, CMI*

Course Project (Dec 2022)

[GitHub](#)

- Built an antakshari like word game on the Ethereum Blockchain

*Tools: Solidity, Truffle, Ganache, TypeScript, Node.js, Svelte, TailwindCSS*

### Craww

*Instructor: Venkatesh Vinayakarao, CMI*

Course Project (Nov 2022)

[GitHub](#)

- Built an Gemini (protocol) Capsule crawler in Rust

*Tools: Rust, SQLite, Docker*

## PROJECTS (CONT...)

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### Customer Service ChatBot

Summer Internship (May - June 2022)

*Mentor: Rajarshi Ray, WTW*

- Built a ChatBot POC that infers customer's issue and sentiment from chat text using NLP

*Tools: Java, Python, fastText, JavaScript, React, Docker*

### Rapid Prediction of Soil Quality Indices

Course Project (Oct - Dec 2020)

*Instructor: Prof. Rituparna Sen, ISI Bangalore*

[GitHub](#)

- Built Prediction Models on NIRS data to predict soil macro-nutrients namely N, P and K using Principal Component Regression and Leverage Validation

*Tools: Python, R*

## SKILLS

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**Technical** Rust, Python, JavaScript, Java, C, Haskell, Solidity, Go, R, HTML + CSS, Git, GitHub, L<sup>A</sup>T<sub>E</sub>X, Database (SQL, MongoDB, Redis), Cloud (AWS, Oracle Cloud, Docker, Ansible, Terraform), etc

**Languages** Bengali(Native), English(Fluent), Hindi(Fluent)

## PROFESSIONAL EXPERIENCE

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- **System Engineer (Intern)** at [Subconscious Compute](#) May - July 2023
- **Software Engineering Intern** at [Willis Towers Watson](#) May - June 2022
- **Cloud and Web Developer** at LibYard Ecommerce Private Limited August - November 2020
- **Subject Matter Expert** in Computer Science, Chegg India Private Limited January - February 2020

## POSITION OF RESPONSIBILITY

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### Chennai Mathematical Institute

August 2023 - Present

*Role: Teaching Assistant (Programming in Haskell)*

### Sai University

August 2023 - Present

*Role: Teaching Assistant (Big Data and Distributed Computing)*

### Tessellate

August 2023 - Present

*Role: Developer, DevOps, SysAdmin*

[Website](#)

- Develop backend and integrations
- Managed in-campus and cloud systems and databases
- Managed automated deployments (CI/CD)

*Tools: Typescript, rSection Svelte, TailwindCSS, Cloudflare, PostgreSQL, Rust, Docker, Ansible*

### LIMIT

January 2020 - July 2022

*Role: Organizer, Developer, DevOps, SysAdmin*

[Website](#)

- Organized the exam and camp
- Developed website and bots
- Managed in-campus and cloud systems and databases
- Managed automated deployments (CI/CD)

*Tools: JavaScript, Node.js, React, TailwindCSS, Python, Django, MariaDB, MongoDB, AWS, Oracle Cloud, Docker, Ansible, Terraform*

## HOBBIES

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Video Games, Carrom, Volleyball, Table Tennis, Listening to Music