

ARGHYADIP CHAKRABORTY

+91 7001978534 ♦ Kalna, West Bengal, India, 713409

arghyadip.chak@gmail.com ♦ <https://arghyac.com> ♦ <https://www.linkedin.com/in/arghyadipchak>

EDUCATION

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%

Acme Academy, Kalna
Indian Certificate of Secondary Education
Council For The Indian School Certificate Examinations

April 2012 - April 2017
Percentage: 95.6%

ACADEMIC INTERESTS

Cloud, Computer Networks, Operating Systems, Information Retrieval

PROJECTS

Secret Handshake over Untrusted Network

Summer Internship (May - July 2023)

Mentor: Siddharth Naithani, SubCom

[GitHub](#)

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

Tools: Rust

Android Rust Service

Summer Internship (May - July 2023)

Mentor: Siddharth Naithani, SubCom

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

- Integrated Rust native libraries into Android projects

Tools: Rust, Java, Gradle, Docker

privacy-sexy-rs

Summer Internship (May - July 2023)

Mentor: Siddharth Naithani, SubCom

[GitHub](#)

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

Tools: Rust, YAML

Ethereum Word Game

Course Project (Dec 2022)

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

[GitHub](#)

- Built an antakshari like word game on the Ethereum Blockchain

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

Craww

Course Project (Nov 2022)

Instructor: Venkatesh Vinayakarao, CMI

[GitHub](#)

- Built an Gemini (protocol) Capsule crawler in Rust

Tools: Rust, SQLite, Docker

PROJECTS (CONT...)

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

COURSES UNDERTAKEN

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

SKILLS

Technical

Rust, Python, JavaScript, Java, C, Haskell, Solidity, Go, R, HTML + CSS, Git, GitHub, L^AT_EX, Database (SQL, MongoDB, Redis), Cloud (AWS, Oracle Cloud, Docker, Ansible, Terraform), etc

Languages

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

PROFESSIONAL EXPERIENCE

- **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

ACADEMIC ACHIEVEMENTS

- Selected for Shriram Scholarship for Master's Programme in CMI
- Received admission offer for Masters Computer Science Program from Institut Polytechnique de Paris
- Ranked 54th in Bachelor of Mathematics entrance examination of Indian Statistical Institute

POSITION OF RESPONSIBILITY

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)

POSITION OF RESPONSIBILITY (CONT...)

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

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