Dibyendu Mandal

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Education

Indian Institute of Technology (IIT) Madras   *July 2016 – May 2021*
Dual Degree (B.Tech + M.Tech) in Electrical Engineering

- Graduated with First Class Honours, specializing in Systems and Signal Processing.
- Thesis: "Optimizing Power Flow in Smart Grids using Reinforcement Learning."
- Coursework: Data Structures, Algorithms, Probability & Random Processes, Machine Learning.

Experience

Software Development Engineer   *Mumbai, India Aug 2021*
Reliance Jio Platforms Ltd.   *– Dec 2023*

- Designed and implemented scalable backend microservices using **Python, Flask, and FastAPI** for internal network orchestration systems.
- Automated deployment workflows with **Docker** and improved CI/CD pipeline reliability, reducing manual configuration time by 40%.
- Integrated system logging with **Filebeat** and **Fluent Bit** for distributed monitoring, enhancing fault detection and debugging efficiency.

Software Engineer Intern   *Internship – Chennai,*
Reliance Jio Platforms Ltd.   *India Jan 2021 – July*
                                                                                  2021

- Built and tested REST APIs for automated provisioning tools in network configuration systems.
- Enhanced data consistency layer by developing custom validation scripts in **Python**.
- Contributed to documentation and debugging of cloud-native modules deployed in internal orchestration frameworks.

Projects

Multi-User Drawing Tool   *github.com/name/repo* ↗

- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
- Tools Used: C++, MFC

Synchronized Desktop Calendar   *github.com/name/repo* ↗

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

Custom Operating System   *2002*

- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

Technologies

Languages: C++, C, Java, Objective-C, C#, SQL, JavaScript

Technologies: .NET, Microsoft SQL Server, XCode, Interface Builder