

Chirayu Mitra

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EDUCATION

Chitkara University, Punjab <i>Bachelor of Engineering in Computer Science</i>	CGPA – 8.40
Narain Public School, Patiala, Punjab <i>XII Non Medical CBSE</i>	Percentage – 75% April 2021 - March 2023
St. Mary School, Patiala, Punjab <i>X CBSE</i>	Percentage – 84% April 2011 - March 2021

ABOUT

- Computer Science student with a strong foundation in Data Structures Algorithms and Object-Oriented Programming (Java, Python) .
- Hands-on experience in full-stack development(React, Node.js) and building cloud-native applications using AWS and Firebase.
- Passionate about building scalable, high-performance cloud software and eager to apply my skills to complex challenges in distributed systems and network security.

PROJECTS

Pole Position | *Python, Flask, Scikit-learn, FastF1, Matplotlib*

- Developed an AI to optimize F1 car ERS deployment for the fastest lap times on any given circuit.
- Engineered a dual-AI system using both a Genetic Algorithm and a Machine Learning model for strategy.
- Created an interactive web dashboard to visualize the AI-driven race strategies and performance data.

Personal Drive | *Amazon S3 , Firebase*

- Architected a scalable, secure file storage application using AWS S3 buckets for reliable, object-based storage and retrieval.
- Integrated secure, federated user authentication using Google Sign-In via Firebase Authentication, securing user data and isolating file access.
- Engineered core file management functionalities and implemented a hierarchical folder system

DevBlog | *React.js, Node.js, Express.js, PostgreSQL, Passport.js*

- Built a full-stack Content Management System (CMS) with complete CRUD (Create, Read, Update, Delete) functionality for blog posts.
- Executed a secure, token-based user authentication using Passport.js, including GitHub OAuth 2.0 for federated social login.
- Engineered key CMS features including a post drafts system for authors and a "filter by tags" functionality for content discovery.

TECHNICAL SKILLS

Programming Languages: Java, Kotlin, Python, C/C++, JavaScript, HTML, CSS ,

Libraries/Frameworks: React.js, Node.js, Express.js

Developer Tools: Git, VS Code, Jupyter Notebook, Postman

Database: MongoDB , PostgreSQL, SQL

Cloud Technologies: Amazon S3 , Firebase Authentication

Paradigms/Concepts: Object-Oriented Programming (OOP), Data Structures & Algorithms

AWARDS AND HONORS

- Top 8 In GDG 1.0 Hackathon - Developed an AI based Application which gives information about plants Scans the plant to give results