

Neil Emmanuel Mathias

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EXPERIENCE

SHADOWFOX | PYTHON DEVELOPMENT INTERN

April 2025 - May 2025 | Remote

- Built advanced Python projects such as web scrapers using BeautifulSoup, interactive games like Hangman, and conducted exploratory data analysis in Jupyter Notebooks with data visualization, highlighting adaptability with real-world datasets and libraries.
- Designed and implemented data-driven applications including CSV file processing for student marks analysis, automation of data aggregation, and report generation, showcasing proficiency in file handling and data manipulation using Python
- Applied object-oriented programming principles to model real-world entities (e.g., superhero teams and mobile phone hierarchies), and delivered analytical projects involving cricket fielding performance metrics and machine learning model deployment, demonstrating both coding depth and analytical thinking

AICTE AWS CLOUD ARCHITECTURE | INTERN

April 2025 - June 2025 | Remote

- Acquired hands-on experience with core AWS services such as EC2 for compute, S3 and EBS for storage, and RDS and DynamoDB for databases, including launching, configuring, and managing cloud resources.
- Developed and implemented secure, scalable, and highly available IT solutions by applying AWS best practices, including the use of Virtual Private Cloud (VPC), Elastic Load Balancer, Auto Scaling, and IAM for access management.

PROJECTS

INNERECHO | MENTAL HEALTH JOURNALING APP

July 2024 - December 2024 | Chennai

- Developed a cross-platform Mental Health App using Flutter (Dart) for the frontend and Spring Boot (Java) with MongoDB for the backend, featuring secure user authentication, RESTful APIs, and Dockerized deployment for scalable and flexible mental wellness solutions.
- Implemented core features including daily mood tracking, guided meditation and breathing exercises, journaling, daily affirmations, and 24/7 AI-powered chat support, providing users with personalized, evidence-based tools to manage stress and improve mental well being in a private environment.

HOUSEHOLD SERVICES | SERVICE MARKETPLACE PLATFORM

Jan 2025 - May 2025 | Chennai

- Built a multi-user platform enabling customers to find, book, and manage household services, while allowing professionals to list offerings, accept bookings, and handle service requests, streamlining the connection between clients and service providers.
- Using Flask, SQLAlchemy, and SQLite for backend and database management.

EDUCATION

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

BACHELOR OF TECHNOLOGY IN
COMPUTER SCIENCE WITH CLOUD
COMPUTING

Aug 2023 - May 2027 | Chennai, India
Cum. GPA: 9.29/ 10.0

SKILLS

Programming:

3+ years:

C • MySQL

1+ years:

Java • React • Python

CREATIVE

Screenplay Writing • Directing
Character Design • Comic Illustration
Non-linear Narratives • Acting • Editing

COURSEWORK

UNDERGRADUATE

Data Structure and Algorithm
Operating System
Database Management System
Introduction to Embedded Programming
and Embedded Operating System
Design Algorithm and Analysis

OTHER PROJECTS

Surya: The Guardian of the Sun (Comic)
AIKYAM - Short Film Screenplay(Short
Film)
ESP32-Based IoT Logger (Research
Paper)
Wine Quality Checker (Mini Project)

LINKS

Github:// [Neil2813](#)

LinkedIn:// [Neil Emmanuel Mathias](#)