

Adrish Mitra

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SUMMARY

Problem solving software developer with core knowledge of Data Structures, Algorithms, OOP, Cloud Computing and Machine Learning. Passionate about fostering innovation and consistently delivering high-quality products that meet and exceed user expectations.

EXPERIENCE

Software Development Intern

Spurzee Technologies

June 2024 - August 2024

- Programmed machine learning algorithms to recognize trade patterns.
- Implemented lazy loading and charting libraries to decrease loading time by 50%.
- Migrated company server from CPanel to Amazon Web Services (AWS) EC2 Server.

Web Development Intern

Pixel Bridges

September 2023 - October 2023

- Employed HTML, CSS, Javascript along with React JS to create Modern Websites for customers.
- Developed responsive websites utilizing React JS and Node JS, utilized ES6 standards for coding.
- Collaborated within a 4-person team to deliver custom websites that consistently surpassed client expectations.

SKILLS

Industry Knowledge: Algorithms, Back-End Web Development, Cloud Computing - EC2, Database Management System (DBMS), Data Structures, Dynamo DB, Full-Stack Development, Lambda, Machine Learning, Responsive Web Design, Route 53, Software Development, Web Development

Tools and Technologies: AWS cloud services, C, CSS, Django, HTML 5, Java, Javascript, MERN Stack, Mongo DB, Node JS, Python, React JS, RESTful

PROJECTS

In-Memory Key-Value Store with Async Processing and Persistence (Redis in python)

github.com/dark-byte/redis-clone-PY

- Achieved 10x faster data retrieval over relational databases using async programming and optimized caching.
- Utilized technologies like Python (asyncio), FastAPI, and JSON for async processing, web interaction, and data persistence, and Pytest for testing.
- Cut query latency by 80%, enabling rapid data access for high-frequency operations with in-memory caching and expiration.

Distributed Web Link Crawling Tool

github.com/dark-byte/Web-Crawler

- Developed a recursive web crawler in Python that estimates and aggregates web links, enhancing data collection efficiency and accuracy.
- Implemented multithreading to optimize user experience with a real-time spinner animation and progress bar using the TQDM library during crawling operations.
- Conducted in-depth testing and optimization to ensure reliable performance across diverse website structures and depths.

University Student Marks Management

github.com/dark-byte/StudentMarksRecord-Backend

- Engineered a University Student Marks Management system using React JS, Node JS and MySQL, facilitating seamless submission and access of internal assessment marks for over 5,000 students and faculty members.
- Developed responsive and interactive user interfaces with React, reducing the manual-work by around 45%.
- Implemented RESTful APIs with Node.js and Express, optimizing data retrieval and management in MySQL, which improved application performance and scalability.

EDUCATION

Bachelor of Engineering

PES Institute of Technology & Management • Shivamogga, Karnataka • 2025

Higher Secondary School Certificate

Delhi Public School • Durapur, West Bengal • 2021

CERTIFICATIONS

Complete Node JS Developer - Udemy

Python for Beginners: Basics of AI Python Coding - deeplearning.ai

Beginner Full Stack Web Development : HTML, CSS, React & Node - Udemy