

Deipayan Dash

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[Website](#) | [GitHub](#) | [LinkedIn](#) | [Medium](#)

WORK EXPERIENCE

Capita PLC

Software Developer

Pune, India

March 2021 - Present

- Built and fine-tuned multiple predictive models, using LSTMs Models, integrating them with **Express Backend** for an internal management and planning application, resulting in a **50% performance increment**. Deployed models using Azure services.
Tech stack: Express, Keras, Azure Machine Learning Services, Azure Container Instances, Azure Virtual Machines.
- Collaborated with a team of developers to build mobile (Android & iOS) versions of internal applications, resulting in a **110% increase in customer count** across 4 countries.
Tech stack: Flutter.
- Led the development and management of an internal application for **managing and planning** projects, implementing various features on-time and improving **UI/UX responsiveness** and **performance by 60%** through efficient **store management** and **caching** services.
- Successfully **scaled the product** to new **modular** and **accessibility** standards following **SOLID** principles, cutting the **render time by 50%** and **gaining 20% in customer count** across 5 nations with over 50,000 daily active users.
Tech stack: Angular-11.2, Tailwind-CSS, Express, NodeJS, Redis, MongoDB.

Real Dev Squad(Open Source Community)

Software Engineer-Open Source Contributor

Remote, India

November 2020 - Present

- Managed an **open source web development community** of **100+ members**, overseeing project coordination and ensuring adherence to **TDD practices** for technologies including **ReactJS, EmberJS, Express, NodeJS, Java, Firebase-Firestore, Kubernetes, Docker, and Middleware.**
- Mentored software engineers on the concepts and applications of **Data Structures & Algorithms and Java Collections Framework**, leading multiple sessions and workshops to enhance their skills and knowledge.
- Proactively **set up repositories, reviewed code submissions**, and **enhanced documentation** for open source projects, overseeing **pull requests** and ensuring code quality.

Indian Statistical Institute

Research Intern

Kolkata, India

May 2019 - August 2021

- Conducted **extensive experimentation and optimization** to enhance the accuracy of various classification and generation models.
- Created Convolutional Neural Network models to classify and identify various animal images with high accuracy.
- Trained and fine-tuned** multiple image generation models using Generative Adversarial Networks using Keras.

EDUCATION

Maulana Abul Kalam Azad University of Technology

Bachelor of Technology in Electronics and Communications, First Class Honours

West Bengal, India

July 2016 - August 2020

SKILLS

- PROGRAMMING: **JavaScript, TypeScript, Java 8, Python, HTML, CSS**
- Expertise in developing applications using modern **libraries and frameworks** such as **ReactJS, NextJS, Tailwind-CSS, NodeJS, Angular, Express, SuperTest, React-testing-library, Firebase-Firestore, MongoDB.**
- Proficient in designing and deploying **micro-services** based applications using **AWS Lambda, Amazon EC2, Kubernetes, and Docker.** Experienced in developing **middleware** solutions for scalable and robust cloud architecture.
- Experience and knowledge working within an **Agile** environment and adhering to **SDLC** methodologies.
- Experience in **version control** management platforms like **GitHub** and **Azure DevOps.**

PROJECTS

Stock Market Simulation for buying and selling virtual shares

[Link To Project](#)

- Revamped the architecture and developed a **full-stack application** for a Stock Market simulation, integrating **GitHub OAuth** authentication and **Google authentication** for seamless user experience. Implemented **real-time** price updating Backend using **Server-Sent Events** and integrated features for buying or selling stocks with virtual currency.
- Tech Stack: ReactJS, Server-sent Events(SSE), Express, GitHub OAuth, Google OAuth2, Amazon EC2(Hosting)**

Created Authentication and Authorisation Middleware for Error Validation

[Link To Project](#)

- Built a robust and secure **authentication middlewares** for **Node.js** applications that handle authorizations and connection errors by validating **JSON Web Tokens (JWT)** following a test-driven development approach. Packaged and published the middleware on the **Node Package Manager (NPM)** registry, making it available for easy integration into other projects.
- Tech Stack: TypeScript, NodeJS, Express, JSON Web Token, Supertest.**

AWARDS AND RECOGNITION

- GATE Qualified(2021) with an **exceptional 98.8 percentile nationwide** in Computer Science and Engineering.
- Received the **prestigious Carried The Day award** at Capita Digital Factory for outstanding performance during Quarter III.