UJJWAL KAR

Associate Software Engineer

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EXPERIENCE

Intern → Associate Software Engineer

Clinisys India Private Limited

📅 01/2023 - Present   📍 Kolkata, India

Leading B2B healthcare software provider specializing in laboratory information systems and clinical data integration to streamline healthcare processes with 3,000+ customers in 34 countries.

- Engineered scalable RESTful APIs and web applications using ASP.NET Core MVC, CQRS, and DDD architectures, optimizing data processing and checked cross-browser compatibility across multiple products.
- Collaborated with cross-functional teams to develop responsive UIs using React and Material-UI, reducing user interaction lag by 15%.
- Spearheaded the development of micro-frontend architecture to enable independent feature development and streamlined deployment processes.
- Automated testing workflows by scripting API and database connectivity in SpecFlow, cutting manual testing effort by 50%.
- Automated a desktop application to entry 4,00,000 data to the application for performance testing.
- Participated in Agile workflows, including daily scrums, sprint planning, and retrospectives, fostering effective teamwork.
- **Technologies:** C#, ASP.NET Core MVC, REST API, React, Material-UI, SQL, Entity Framework, Jest, XUnit, SpecFlow

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science and Engineering

Bengal Institute of Technology

📅 08/2019 - 08/2023   📍 Kolkāta, India

Higher Secondary (WBCHSE)

Kamalpur Netaji High School

📅 05/2016 - 05/2018   📍 Bankura, India

PROJECTS

Social Network for Entrepreneur Communities

📅 04/2022 - 08/2023   📍 India

Build a multi-platform prototype (Website, Android, iOS) for entrepreneurs, enabling the sharing of business insights via posts, a Q&A forum, and curated case studies, showcasing functionality across 3 platforms and demonstrating scalability during a hackathon attended by 2,67,000 participants.

- Managed a team of 6 members, ensuring timely delivery and maintaining high-quality standards.
- Provided case studies of 80 companies, around 100 articles on sales and marketing.
- Trained an advanced text classification model for 100% business-relevant post detection.
- Built the frontend with React, React Native, and Tailwind CSS, while implementing the backend using Django REST API.
- **Technologies:** React, React Native, Tailwind CSS, REST API, Text Classification

Online Marketplace for Local Businesses

📅 11/2020 - 01/2021   📍 India

Designed a localized e-commerce prototype with integrated home delivery services for sellers and delivery personnel, demonstrating seamless functionality and scalability during a hackathon with 400+ participants.

- Developed a full stack application with Django MVT, along with managing a team of 6 people.
- Optimized product cost estimation by experimenting with 8+ regression algorithms, ultimately using Support Vector Regressor to achieve an R^2 value of 0.78
- **Technologies:** Django MVT, Bootstrap, Scikit-Learn, ML Algorithms

KEY ACHIEVEMENTS

🏆 **Pixel Team Award**
Received the Pixel Team Award for exceptional contribution to team projects as a member of a 15-person team.

⚛️ **Finalist on Smart India Hackathon**
Designed a community platform for businesses and became one of the 1,200 teams to reach the final out of 51,000+ teams.

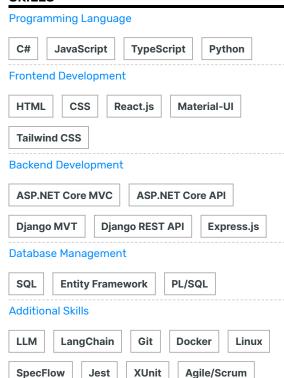🏅 **Bronze Medallist on GenZ Tech-A-Thon**
Secured 3rd position and won the Bronze Medal among 50+ teams for developing a prototype of a social networking platform for entrepreneurial communities.

💎 **Ranked in the Top 20 at Self-Reliance Based Intelligent India Hackathon (SRIIH) among 400+ participants**
Developed a prototype of an online marketplace solution during the pandemic, aimed at empowering the local businesses.

SKILLS

Programming Language

| C# | JavaScript | TypeScript | Python |

Frontend Development

| HTML | CSS | React.js | Material-UI |
| Tailwind CSS |

Backend Development

| ASP.NET Core MVC | ASP.NET Core API |
| Django MVT | Django REST API | Express.js |

Database Management

| SQL | Entity Framework | PL/SQL |

Additional Skills

| LLM | LangChain | Git | Docker | Linux |
| SpecFlow | Jest | XUnit | Agile/Scrum |
| Microservices Architecture |

PUBLICATIONS

Explainable Artificial Intelligence (XAI) Based Analysis of Stress Among Tech Workers Amidst COVID-19 Pandemic

Springer

📅 07/2023

This research explores the use of Explainable AI (XAI) to detect workplace stressors impacting tech professionals' mental health, providing novel insights and actionable visualizations for improved understanding and decision-making. Read More

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