SUKRIT ROY CHOWDHURY

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Education

Technological University of the Shannon　　　　　　　　　　**Sep'24 – Present**
Software Engineering - On the path to get 1:1　　　　　　　　　*Athlone, Ireland*

SRM University　　　　　　　　　　　　　　　　　　　　　　**Graduated – 2020**
Bachelor of Technology in Electronics And Communication Science - Grade 1:1　　*Chennai, Tamil Nadu*

Technical Skills

Languages: Python, JavaScript/TypeScript, PostgreSQL, MongoDB

Technologies/Frameworks: Node.js, Express.js, Socket.io, Redis, Kafka, GraphQL

DevOps/Tools: Docker, Jenkins, GitLab, AWS EC2, Agile, Git

Testing: Unit Testing, Integration Testing, Test Automation (e.g., Jest, Mocha)

Experience

PwC India　　　　　　　　　　　　　　　　　　　　　　**May 2021 – Aug 2024**
Software Engineer - Associate　　　　　　　　　　　　　　　*Kolkata, West Bengal*

- Developed scalable Rest APIs for a reputed airline company that leverage staging and batch processing logic to efficiently process concurrent high volumes of data loads, achieving a **30%** processing time.
- Integrated **asynchronous** messaging queue - Kafka to enable **bi-directional data sync** between **API engine** and **Salesforce**, capturing real-time critical **business events.**
- Actively utilized **Veracode** to identify and mitigate potential **security issues**, increasing application's strength and safeguarding against risks.
- Automated **Python** scripts reduced manual processing time from **days to hours** for a leading telecommunications client's cleanup procedure.
- Contributed to the **contract lifecycle management** of a reputed pharmaceutical company by enhancing **contract processes** and developing additional contract features in collaboration with cross-functional teams.
- Restructured database logic and workflow, achieving a significant reduction in processing time from **half an hour** to just a **few seconds.**
- Led efforts to enhance code quality and security by writing comprehensive test cases, resulting in a remarkable achievement of over **90% code coverage**.
- Tech Stack - **Typescript , Node js , Kafka, Python , PostgreSQL, GraphQL**.

Digital Aptech　　　　　　　　　　　　　　　　　　　**Dec 2020 – April 2021**
Software Engineer Trainee　　　　　　　　　　　　　　　　*Kolkata, West Bengal*

- Developed reusable React components for a Travel Agency, enhancing code modularity and user interface consistency.
- Integrated **Firebase authentication** into React.js applications, enhancing security and user authentication.
- Successfully deployed applications on **Digital Ocean**, utilizing GitLab for version control and continuous integration.
- Tech Stack - **React js , Javscript , Mongodb , Node js**

Certifications

- **Microsoft Certified: Azure Fundamentals**: Feb 2024
- **AWS Certified Cloud Practitioner**: Mar 2023
- **Certified Entry-Level Python Programmer(PCEP)**: Dec 2021

Personal Projects

Google Docs Clone | *MERN Stack, Socket.io , Docker*

- Developed a well-architected approach to replicate the collaborative document editing features of Google Docs.
- Implemented a **real-time collaboration** feature with **multiple users** editing the same document simultaneously.
- Integrated an **auto-save** feature, ensuring dynamic data storage in the database with **minimal latency.**
- Applied **Auto Deploy** using **GitHub** and **Docker** for containerization.

Open Source - Arduno LED Visualizer | *C++, Arduno IDE*

- I designed and executed an Arduino LED Visualizer that translates **MIDI signals** from a piano into captivating LED light displays with **three distinct** color patterns
- Utilization of **C++** and the **Arduino IDE** for software and firmware development.