BIMAL GUPTA

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Skills

- TypeScript | Java | Node | React | Redux | PostgresSQL | NoSQL | Git | WebHooks
- Amazon Web Services | Gitlab CI/CD | Jest | Unit Testing | Serverless | Looker | Newrelic
- Microservices | Distributed Systems | Frontend | Backend | Full-Stack | English – *All professional proficiency or above*

Experience

Senior Full Stack Engineer   **Cimpress Technology**   *Remote, India*   **09/2021 - Current**

- **Achieve 100% backlog visibility leading to better prioritization and scheduling of Jobs for an Automated Batching** system that periodically supplies Jobs to production factories by building an Async distributed system in Nodejs using a serverless architecture that is scalable, resilient, and observable.
- **Increased the maintainability and robustness of folds of our event-based communication in our distributed system** by leading the adoption of an open-source **Netflix Conductor Orchestrator** that provided UI for observability along with a retry mechanism suitable for our idempotent architecture. Pioneered the ways of working, adoption of workflows, integration of CI/CD, and synchronous error reporting/alerting via webhooks in our current tools like Sumologic and Slack.
- **Increased developer efficiency and metadata maintainability of our workflow's codebase** which was written in YAML by Creating **Conductor SDK** which enabled us to create workflows using typescript which enabled modularization, abstraction, and integration of custom Javascript-based scripts without compromising on existing functionality.
- **Addressed Customer grievances on the fly using a chat application for quick queries or FAQs or SOPs** built using Aws Lex. It was trained onto our data and integrated into our customer-facing UI helping in resolving queries in an automated fashion while saving developers of interventions.

Lead Engineer   **Samsung R&D**   *Bangalore, India*   **10/2019 - 09/2021**

- **Increased the accuracy of a denoising ML model by 33% by correcting manual shots images, achieved by creating an Image Correction pre-processing pipeline** built using Python. Under the guidance of the director of Visual Intelligence, we were able to generate more datasets, which aided in better learning for the model and, in turn, better denoising (post-processing) of Night Images. It later got deployed on Samsung Note 21 devices that received wide appreciation for its state-of-the-art Night Shots.
- **Identified multiple fraudulent targeted attacks on Samsung accounts with multiple password retries or compromised accounts by building a fraud detection and alert system for Samsung Accounts.** It helped blacklist malicious IPs / Samsung devices while also helping us isolate targetted customers to enable MFA on devices.
- **Provided a seamless experience to customers who owned multiple Samsung devices in their homes like refrigerators, air purifiers, etc by integrating them into the Bixby ecosystem**. It enabled users to control all their supported Samsung devices using Bixby Voice commands or the smartThings app. Given the wholesome experience, This enhancement boosted sales of Samsung IOT products during COVID-19 times, especially in the South Korean region.

Research & Development Engineer   **Dassault Systemes**   *Bangalore, India*   **12/2017 - 10/2019**

- Worked on **Enovia** product to enhance its capabilities and provide new customer-specific features adhering to best software practices.
- Modified web app UI to a modern-looking aesthetic by migrating existing UI components to company-defined standard UI components, apart from increasing the aesthetic value it added fluidity and a consistent look and feel to the Web App.
- Actively participated in bug fixing and regular maintenance work to increase the robustness of the system by regular Integration and load testing before each weekly/nightly release.

Software Engineer   **Cognizant**   *Bangalore, India*   **04/2015 - 12/2017**

- Implemented Health Care based website for a health giant in the US using **Adobe Experience Manager, Java, and Jquery** that helped them expand their business and outreach at the global level by internationalizing their website (i18n) in more than 10 languages
- Implemented a content-based website for a healthcare company that provided template holders with the content being in control of the client it provided them more flexibility and autonomy to achieve dynamic and seasonal requirements.

Software Engineer, Trainee   **Persistent Systems**   *Nagpur, India*   **09/2014 - 11/2014**

- **Training:** Production level coding practices in Java, MySQL along with mini projects- scrum planner

Education

Bachelor of Technology   **Academy of Technology (WBUT)**   *Kolkata, India*   **07/2010 - 06/2014**

- Major in Computer Engineering Science and Engineering with a DGPA of 7.55

Mentorship

- **Orkes Bootcamp:** Conducted a session at **Google Bangalore campus** on the adoption of Orkes community Conductor in production-grade systems **(30/04/2023)**
- **Cimpress Domain:** Guide and mentor newcomers on microservices and domain-level challenges and jargon.

Others

- PG Diploma in **Artificial Intelligence and Machine Learning** from **Great Lakes Institute(2020-21)**