

Soham Dasgupta

Technology Leader | Enterprise Architect | Full-Stack Developer | Open-Source Enthusiast
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Summary

Technology leader with over 14 years of experience, previously at **Big Four (Deloitte)**, skilled in steering software engineering, enterprise architecture, and full-stack development. Recognized for spearheading strategic projects, fostering innovation, and driving successful product launches. Highly experienced in cloud migrations, application modernization, and architecting scalable solutions. Dedicated to improving team synergy, performance, and quality as a servant leader.

Skills

- HTML, CSS, JavaScript, TypeScript, React, Next.js, Astro, jQuery
- C#, VB.NET, .NET, ASP.NET, REST, GraphQL, OIDC, JWT, SAML, gRPC, Node, Bun, Deno
- Microsoft SQL Server, SQL Service Broker, SQLite, RabbitMQ
- OpenAI Assistants API, GPT-4 Turbo, GPT-4, GPT-3.5 Turbo, LangChain JS, Prompt Engineering
- Git, Azure Repos, GitHub, Azure Boards, Wrike, JIRA, Azure Pipelines, GitHub Actions
- Amazon DynamoDB, Amazon SQS, Amazon EventBridge, Amazon SES, Amazon RDS, Amazon Cognito, Amazon CloudWatch
- AWS Fargate, AWS Lambda, AWS CDK, AWS CloudFormation
- Docker, Kubernetes, Helm
- Sonar Cloud, WhiteSource, Fortify
- Microservices, Distributed Systems, Event-Driven Architecture
- English, Hindi, Bengali - *All professional proficiency*

Experience

Director, Software Engineering | LeaseAccelerator | Kolkata, India (Remote) | 05/2023 - Current

- Spearheaded the design and implementation of a cloud-native asynchronous Lessor Accounting API system (\$6 million ARR) leveraging AWS Cloud-Native architecture, implementing **event-driven patterns** and **distributed systems** best practices while ensuring high availability across multiple availability zones.
- Deployed AWS infrastructure using **AWS CDK**, integrating custom token-based authentication via **AWS API Gateway** for enhanced security.
- Engineered a task segmentation system using **DynamoDB** and **Node.js** to efficiently manage and process large-scale data requests, significantly improving system throughput and resource utilization.
- Developed containers for asynchronous task processing using **AWS Fargate**, achieving seamless scalability and improved performance to handle increased workload demands efficiently.
- Implemented a Lambda function to efficiently process large CSV files stored on **AWS S3** using **Node.js streams**, ensuring minimal memory consumption and utilizing custom transformers for stream chunk sanitization.
- Configured an event-driven architecture using **AWS EventBridge** to integrate seamlessly with external systems, enhancing the speed and accuracy of notifications and ensuring reliable communication across platforms.
- Architected a multi-tenant emission accounting application using **AWS Lambda**, **AWS API Gateway**, **AWS CloudFront**, and **DynamoDB**, employing advanced blue/green deployment strategies and optimized front-end hosting.
- **Mentored** and nurtured engineering talent, boosting team performance metrics and fostering an environment of growth and development.
- Led the **cloud migration** of an on-premise lessee accounting application with \$4 million ARR to AWS, achieving high customer retention within eight months.
- Successfully transitioned a bespoke authentication system to **AWS Cognito** with 2FA, enhancing security.

Software Engineering Manager | Deloitte | Kolkata, India | 04/2017 - 05/2023

- Championed the development roadmap for an enterprise lease accounting application, scaling to **20+ Fortune 500 companies** and an array of **US state and local government agencies**, facilitating a **20% annual revenue growth**.
- Initiated adoption of Azure DevOps and Scrum methodology which streamlined workflow, enhanced delivery, and enabled achieving of SOC1 compliance while increasing release frequency and quality.
- Refined the software engineering hiring strategy in collaboration with Talent Acquisition, enhancing team cohesion and candidate quality.
- Led rapid expansion of India engineering team, securing high-caliber talent and delivering high-quality releases that contributed to overall product success.
- Spearheaded intern mentorship program, mentoring several batches, facilitating training sessions, and guiding a winning innovation project team.
- Empowered junior professionals with career-focused guidance, boosting team productivity.
- Developed a distributed background worker utilizing **C#**, **MSSQL**, and **Service Broker**, fulfilling thousands of time-sensitive reporting requests monthly.
- Engineered an enterprise reporting solution yielding **200+ FASB and IFRS compliant** lease accounting reports.
- Enhanced software lifecycle processes with the adoption of **CI/CD** pipelines, comprehensive code reviews, and automated testing.
- Crafted an internal tool that improved accounting accuracy testing duration by **over 70%**.
- Coauthored a complete microservice and micro-frontend ecosystem using an array of technologies including **.NET**, **gRPC**, **React**, **Docker**, and **Kubernetes** for downstream application development.
- Functioned as a Subject Matter Expert in assessing and optimizing architectures for over **30+ products** across the US Advisory practice, directing both immediate and long-term enhancements.

Development Lead | EffiaSoft | Hyderabad, India | 03/2014 - 03/2017

- Engineered a robust **REST API** for a Point-of-sale (POS) application serving over **3000 MSME customers**.
- Overhauled the architecture of a multi-tenant enterprise ERP application, achieving a **25% performance boost**.
- Formulated a resilient data synchronization function with resume capability, safeguarding consistency for the Android/Windows POS app.
- Developed an import/export utility allowing efficient transactional and master data management through Excel files.
- Synthesized key CRM features for a substantial shipping enterprise, aligning business and technical requirements.

Junior Developer | La Exactly Software | Kolkata, India | 11/2009 - 03/2014

- Developed an enterprise payroll application servicing large organizations with 5000+ employees, significantly enhancing processing efficiency.
- Rearchitected an enterprise payroll calculation engine, achieving a drastic decrease in salary computation time by **over 70%**.
- Engineered comprehensive salary slip and accounting reports, optimizing report generation performance and user experience.
- Implemented novel accounting and inventory features for an ERP application, boosting client productivity and report acceleration.

Education

- **Master of Computer Applications** | Sikkim Manipal University | *Kolkata, India* | **2011 - 2013**
- **B.Sc. Information Technology** | Kuvempu University | *Kolkata, India* | **2006 - 2009**

Certifications

- **MCSA: Web Applications - Certified 2018** | Microsoft | **(07/2018)**
- **MCSD: App Builder - Certified 2018** | Microsoft | **(07/2018)**
- **Exam 480: Programming in HTML5 with JavaScript and CSS3** | Microsoft | **(06/2018)**
- **Exam 486: Developing ASP.NET MVC Web Applications** | Microsoft | **(07/2018)**
- **Exam 483: Programming in C#** | Microsoft | **(07/2018)**

Recognitions

- **Outstanding Performance Award:** For architecting a distributed background worker, boosting user experience and application efficiency. **(12/2022)**
- **Outstanding Performance Award:** Recognized for timely pivotal release delivery. **(12/2021)**
- **Spot Award:** For mentorship leading to innovation project victory in 5G/6G technology. **(05/2019)**
- **Spot Award:** Contributions to USI engineering operations commencement. **(04/2017)**
- **Performer of the Month:** Key role in strategic CRM project delivery. **(02/2014)**