

# Soham Marik

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## EDUCATION

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**Indian Institute of Information Technology, Sri City**

*B.Tech., Computer Science and Engineering*

Chittoor, Andhra Pradesh

2015 – 2019

**Delhi Public School, Ruby Park, Kolkata**

*Class XII (CBSE)*

Kolkata, West Bengal

2015

**Delhi Public School, Ruby Park, Kolkata**

*Class X (CBSE)*

Kolkata, West Bengal

2013

## EXPERIENCE

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**AutomationEdge**

*Senior Engineer*

Pune, Maharashtra

April 2024 – Present

- Enhanced and Expanded AISTudio: Improved the AISTudio chatbot framework by incorporating critical features such as licensing for the application, as well as in-demand features like retrieval-augmented generation with multiple cloud providers, including AWS and Azure. Optimized the framework for better accuracy and performance, resulting in increased user engagement and satisfaction.
- Client deployment of AISTudio on Azure: Deployed AISTudio on Azure VMs for a production client, used across 8 regions by 10,000 employees. Delivered a secure, scalable, and timely rollout.
- Architected and built the AWS EKS-based platform for CareFlo (a home-care and healthcare automation platform): Designed and launched the platform from scratch using Terraform with modular configuration and remote state. Set up CI/CD with ECR, CodeBuild, and ArgoCD, added Grafana-based observability, optimized resource usage, and trained developers for independent deployments. The platform now supports over 3,000 active users.
- AutomationEdge Infrastructure and Upgrade: Provisioned new infrastructure for AutomationEdge, the company's flagship RPA platform. Played a key role in rolling out a new production environment and executing a major version upgrade with significant architectural changes.
- Tech stack: Python, Django, AWS, Azure, Docker, Kubernetes, Terraform

*Engineer*

February 2020 – March 2024

- Developed AISTudio - a chatbot framework that allows training NLU and knowledge article search models and using the predictions obtained from these models to configure chatbots. These chatbots seamlessly interact with the RPA workflows written in the existing AutomationEdge product.
- Developed the backend functionality from scratch for the NLU data labeling components, which served as the inception of the product. This involved creating the database models, implementing the business logic and designing the REST API interface.
- Dockerized and deployed AISTudio using Kubernetes on Microsoft Azure, ensuring consistent deployments across environments and seamless integration with existing infrastructure. Gained foundational experience in Kubernetes operations and cloud-based deployment pipelines.
- Streamlined and automated the release process using Azure DevOps, reducing manual intervention and eliminating potential errors during deployment, leading to faster time-to-market for new features and updates.
- Tech stack: Python, Django, PostgreSQL, Gunicorn, Redis, Docker, Kubernetes, Azure DevOps.

**Glocal Healthcare Systems Pvt. Ltd.**

*Research and Development Engineer*

Kolkata, West Bengal

May 2019 – February 2020

- Maintained the video and text communication interface for HelloLyf, an online doctor consultation platform.
- Trained a one-vs-rest random forest classifier on patient data consisting of age, gender, location, vitals, and symptoms and deployed it on Amazon Sagemaker, marking a significant milestone as the first steps towards artificial intelligence implementation in the company.
- Tech stack: Java, WebRTC, Python, numpy, pandas, scikit-learn, Amazon Sagemaker.

## TECHNICAL SKILLS

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**Languages:** Python, SQL

**Softwares and Tools:** Git, PostgreSQL, Redis, Docker, Kubernetes, Azure DevOps

**Web Technologies:** Django, Gunicorn, NGINX

**Skills:** Web Development, Backend Development, DevOps

**Cloud Platforms:** Microsoft Azure, AWS