SAHIL DUTTA

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SUMMARY

Cloud-focused Computer Science student with hands-on experience in deploying cloud solutions using AWS, Azure, and GCP. Adept at collaborating in agile teams and passionate about optimizing cloud infrastructure to improve operational efficiency. Proven ability to manage cloud resources, develop software, and provide technical support in cloud environments.

PROJECTS

Moodify (Collaborative Project with Evan Babic)   Nov 2024 – Present
Mood-based music recommendation app with cloud infrastructure
Technologies Used: Node.js, React.js, Spotify API, AWS (EC2, S3, RDS, CloudFront), Terraform, CI/CD

- Developed a mood-based music recommendation app using Node.js and React.js, integrated with the Spotify API to generate 10 unique songs based on user mood.
- Hosted and deployed the application on AWS, leveraging EC2 for compute power, S3 for media storage, RDS for database management, and CloudFront for fast content delivery.
- Integrated Terraform for Infrastructure as Code (IaC) to provision and manage cloud resources, ensuring efficient cloud infrastructure management.
- Implemented CI/CD pipelines for smooth and automated deployments.
- Focused on building a robust, flexible infrastructure that supports scaling, high availability, and rapid iteration, aligning with modern cloud practices.

Online Bazaar   Feb 2024
Full-stack e-commerce app with Java, Angular, and Thymeleaf
Technologies Used: Java, Angular, Gradle, Thymeleaf, Bootstrap, Local Database

- Developed a full-stack e-commerce application using Java and MVC architecture.
- Implemented dynamic front-end features with Angular and Bootstrap for a responsive user interface.
- Integrated a local database for managing items, enabling CRUD operations like adding, editing, deleting, and updating items.
- Added a shopping cart with a checkout feature, including a price calculator for streamlined transactions.
- Used Gradle for project build automation and Thymeleaf for server-side rendering.

TECHNICAL SKILLS

- **Cloud Platforms:** Azure, AWS, GCP.
- **Infrastructure as Code:** Terraform, AWS CloudFormation.
- **Configuration Management:** Ansible, PowerShell, Puppet.
- **DevOps Tools:** Docker, Kubernetes, Jenkins, GitHub, Azure DevOps (agile tools).
- **Virtualization:** VMware, GNS3, VirtualBox.
- **Programming Languages:** C, C++, Java, TypeScript, Python.
- **Web Development Frameworks:** Spring Boot, Flask, ASP.NET MVC.

EXPERIENCE

Digital Marketing and Operations Coordinator   Jan 2021 – Dec 2023
The Pulse, Kolkata, India

- Developed and launched the official website for The Pulse New Town (https://pulsenewtown.com/), enhancing online visibility and improving customer engagement.
- Created and executed electronic direct marketing strategies, boosting customer engagement and retention.
- Streamlined user onboarding and improved system efficiency through over-the-air enrolment processes, reflecting a focus on both customer experience and operational effectiveness.
- Utilized Excel for advanced data management and reporting, ensuring accurate data entry and detailed reports for decision-making.
- Collaborated with cross-functional teams, ensuring that all digital marketing and operational strategies aligned with the company's growth and service expansion.
- Coordinated online initiatives that enhanced the company's digital presence and customer satisfaction, including offering a clean and responsive website with integrated features such as online bookings and inquiries.

Key Technologies/Skills Used: Website Development, Digital Marketing, Data Management, Excel, Customer Engagement, User Onboarding, Cross-functional Collaboration

EDUCATION

Honours Bachelor of Computer Science (Specialty in Cloud Computing)   Jan 2022 – Apr 2026
Sheridan College, Oakville
Relevant Courses: Virtualization, Cloud Infrastructure, Data Structures & Algorithms

ACTIVITIES AND INTERESTS

Member, Google Developer Student Clubs, Sheridan College   Jan 2024 – Present
Collaborated with peers on cloud-based projects, including setting up CI/CD pipelines with Jenkins.