

SKILLS

- DSA, Git, OOPs, Backend Development, Java, Python, Flask, MySQL, Django, SQL Server, PostgreSQL, Jira, Spring Boot, Pandas, Numpy, FastAPI, Hibernate, ETL Tools, Docker, Spring, Maven, Mule 4, AWS, Jenkins, Microservices, Power BI, RAML, HTML, CSS, RabbitMQ, Google Cloud Platform, Javascript, React, SaaS, D3.js, Chart.js

EXPERIENCE

Senior Software Engineer

Feb 2024 - Present

- Mphasis
- Engineered end-to-end APIs with comprehensive test cases, enhancing system reliability and ensuring 100% alignment with project requirements.
 - Refactored the existing codebase to integrate new functionalities, improving maintainability and reducing technical debt by 30%.
 - Upgraded cloud infrastructure using AWS SDK from v1 to v2, ensuring system stability and enhancing operational endurance.
 - Developed end-to-end tests for cloud stacks, achieving 100% code coverage and significantly improving overall quality metrics.
 - Designed and implemented an AWS Step Function, streamlining workflows and increasing AWS infrastructure efficiency by 25%.
 - Architected scalable systems using AWS services like S3, EC2, Lambda, CloudWatch meeting project specifications and enhancing performance.
 - Mitigated security vulnerabilities, improving application security posture by 40% and safeguarding against SQL injection and other threats.
 - Facilitated weekly knowledge transfer sessions and monthly practice workshops, fostering team collaboration and elevating system design skills across the team.

Software Development Engineer II

Apr 2023 - Oct 2023

- 3SC
- Developed and tested robust APIs for generating client-specific analysis reports, enhancing data accessibility and client satisfaction.
 - Deployed scalable web applications on AWS EC2, improving application availability and performance by 30%.
 - Engineered an event-driven architecture for real-time data transfer using Change Data Capture and RabbitMQ, increasing data synchronization efficiency by 40%.
 - Utilized AWS S3 for secure cloud storage of client data, ensuring 99.9% data availability and durability.
 - Implemented JWT token authentication to secure APIs, enhancing system security and user trust.
 - Deployed applications on GCP, optimizing resource management and reducing operational costs by 20%.
 - Built and maintained applications in Docker containers, streamlining development workflows and reducing deployment time by 50%.
 - Used React.js in JS (ES6+) for building parts of an interactive web application.
 - Used HTML, CSS, SASS, React in Javascript (ES6+) for building a portfolio website.

Software Engineer II

Jan 2023 - Apr 2023

- Landmark Group
- Developed API endpoints for generating customized analysis reports, automating email distribution, enhancing client satisfaction by 30%.
 - Optimized API performance, achieving a 50% reduction in latency across multiple endpoints, significantly improving user experience.
 - Integrated Logistiq API with Opencart, streamlining customer order placement and increasing order processing efficiency by 25%.
 - Designed and implemented React functions in JavaScript (ES6+), aligning ecommerce features with client specifications and ensuring robust E2E testing.
 - Utilized Redux for state management in the ecommerce platform, improving application performance and responsiveness.
 - Migrated Shopify app from version 2.0 to 3.0, enhancing functionality and user experience, while developing order placement methods with Logistiq.
 - Worked on Opencart, like - created opencart extension, integrating opencart with app Logistiq etc.

Senior Software Engineer

Oct 2021 - Jan 2023

- Apisero
- Engineered a data migration system from a client's legacy system to Salesforce, reducing migration time by 30% and ensuring seamless end-to-end testing.
 - Developed a real-time data synchronization integration between legacy systems and Salesforce, enhancing data accuracy and reducing latency by 25%.
 - Created a bidirectional data transfer system between Salesforce and Microsoft D365 for aiftables.com, improving operational efficiency by 40%.
 - Built a Twitter clone with login functionality using SAWO SDK, achieving a 100% pass rate in end-to-end testing.
 - Designed and implemented a movie ticket booking system, resulting in a 20% increase in user satisfaction based on feedback.
 - Established automated deployment pipelines with AWS CodePipeline and CodeBuild, cutting deployment time by 50%.
 - Developed APIs and Mule apps in Mulesoft, streamlining integration processes and enhancing system interoperability for client requirements.
 - Used D3.js, Chart.js in Javascript (ES6+) for building dashboards and data visualization, ensuring accurate data representation.
 - Built Authentication and Authorization System for end users using React.js in Javascript (ES6+).
 - Used HTML, CSS, SASS, React in Javascript (ES6+) for building an interactive website for end users which showcased the data storage in the backend, increasing client satisfaction by 50%.

Senior Project Engineer

Jun 2018 - Oct 2021

- Wipro Ltd
- Reduced time consumption required for data extraction from SQL server views.
 - Resolved various issues of DMEs (Data Migration Experts) in BOA ADM (Advanced Data Migration) and Qlikview and performed E2E testing.
 - Automated various manual work such as excel sheet generation, mail triggering etc using Python and SQL server.
 - Used ETL tool BOA ADM for data migration and resolved errors while migrating data.
 - Reduced latency upto 80% in data extraction using Qlikview in daily and weekly cron jobs for migration.

PROJECTS

- Blogging Web Application
- https://github.com/akashdeep221/blogapp_star
- Created the backend of a blogging web application with JWT Security for authentication and authorization. Programming language used here is Java.
 - Utilized Docker for the application deployment.

Note Management Application

<https://github.com/akashdeep221/notehive>

- Created the backend of a Note management application where users can create, read, update, delete, share and also search for notes based on keywords.
- Developed the application using Python (100%) and PostgreSQL.
- Utilized JWT Tokens for authentication and authorization.
- Implemented custom rate limiting and request throttling.

Simulation of wheeled mobile robot control and their trajectory tracking

- Completed a project on simulation of wheeled mobile robot control and their trajectory tracking on a 2d plane through PID controllers in IIT Guwahati Internship in EEE department in 2017.

Smart Line Following Robot and its trajectory controlling

- Successfully completed final year project on Smart Line Following Robot and its trajectory controlling on a 2d curved or straight plane with obstacles in 2018.

Created and controlled a robot that can travel in a 2d plane

- Constructed a remote controlled robot as a project on Embedded Systems with Robotics in 2016.
- Controlled the robot's trajectory with smartphone using Bluetooth on a 2d plane.

ACHIEVEMENTS

- Accoladed 4-star (Excellent) rating on a scale (0-4) at yearly performance appraisal by Apisero in 2022.
- Accoladed with MCD L1 Developer Certification from Mulesoft in 2021.
- Awarded a Pragati in Wipro for significant latency reduction (of around 80%) resulting in faster data migration in 2020.
- Awarded a Pragati in Wipro for significant reduction in manual work by automation resulting in faster data migration in 2019.
- Nominated as Star of the Week on a course on Embedded Systems with Robotics in 2016.
- 3rd Runner Up in Robotics Competition organized by Robosapiens Technologies in NITS in 2015.

EDUCATION

Woolf Higher Education Institution (Scaler Neovarsity)

2025

MS
MS (Master of Science) in Computer Science (2023-2025) (pursuing)

NIT Silchar

2018

B.Tech | 7.29 CGPA
Electronics and Instrumentation Engineering

COURSES

- Data Structures and Algorithms, Computer Networks, Operating Systems, LLD and HLD by Scaler (2022)
- Robotic Vision under Prof. Peter Corke offered by QUT Australia (2016)
- Networking Technology, Android offered by RCPL India (2017)
- Embedded Systems and Robotics by HPE Education Services (2016)