

Resume of Apurba Saha

Full Stack Software Engineer

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Summary

Full Stack Software Developer with knowledge in a number of languages and frameworks which includes experience in development of professional web applications and REST API using the latest technologies. Seeking an opportunity to contribute to a progressive thinking, fast paced organization.

Work Authorization: Authorized to work in the **USA** as a permanent resident.

Education

Master of Science- Information Systems & Technology (Software Engineering) - GPA: 3.70 - (2022)

University of Michigan Dearborn, Michigan, USA

US Equivalent = Bachelor of Engineering - (2007)

Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh

Technical Skills

Languages	Python, PHP, Java, JavaScript
Web technologies	HTML5, CSS, Django, VUE JS, Bootstrap, React-Native, NodeJS, Spring boot, REST API
Cloud Technologies	AWS, Azure (app services / EC2, azure functions/ Lambda, RDS/SQL/Cosmos, Azure DevOps, Data Pipelines, Azure Data Factory, Azure Synapse, etc.)
Database Technologies	SQL, MySQL, Firebase, MongoDB, PostgreSQL, Data warehouse, Data Lake
IDE	Android Studio, Visual Studio, IntelliJ, Azure Data Studio
Version /Repository	GIT, TFS, GitHub, Azure DevOps
Operating Systems	Windows, Linux, iOS, Android, macOS

Interpersonal Skills

Fluent in English, Bengali & Hindi; communicative in French; Efficient time manager, planner & organizer; Excited to work with agile teams; Very motivated to learn.

Work Experiences

❖ *Senior Software Developer, Dana Incorporated, Full-Time, (February 2022 – Present)*

Detroit Metropolitan Area, USA

- Design and Develop microservices with Python for back-end application by Azure functions to converts APIs from monolithic applications which improved the overall process nearly 60 percent in terms of scalability, maintaining and deployment.
- Design, Develop and refactor legacy front-end JavaScript based codes with cloud-based app services that improved efficiency more than 50 percent and converted the legacy virtual machine (IaaS) concepts into modern web applications (PaaS).
- Design, Develop, optimize, modify and maintain SQL databases (PostgreSQL, SQL Server) based on the front-end and API requirements in order to accommodate large amount of data coming from data lake via numerous data pipelines.
- Architect and implement end-to-end flow to ingest data from diverse sources into a Data Lake using REST APIs and Azure Functions.
- Develop data integration pipelines within the Azure ecosystem, utilizing both Azure Data Factory and Azure Synapse to facilitate the transformation of data into actionable business use cases.
- Demonstrate proficiency in comprehending intricate end-to-end ETL processes, encompassing data ingestion from diverse sources into the Data Lake, followed by extraction and transformation of data into a data warehouse
- Guarantee optimal performance, quality, and responsiveness of applications while proactively identifying and resolving

bottlenecks and bugs. Contribute to the maintenance of code quality, organization, and automation processes to ensure efficient operations.

- Implementing test driven development methodologies along with unit and end to end testing tools like JUnit, Selenium, Cypress, Playwright etc. for delivering testable and robust code.
- Working collaboratively and agile ways with business analysts, architects, UX/UI developers, project & product managers to design and build scalable digital solutions that align with the organization's goals, as well as customer needs.
- Carry out regular security and performance checks and find solutions to security threats, viruses, or errors that might hinder the performance of applications as well as cloud monitoring to ensure the product availability 24/7.

❖ *(Freelance) Full Stack Software Developer, Part -Time, (December 2019 – February 2022) in USA*

Worked in a group of developers to build, examine and maintain applications from startups to large-scale businesses based in the US and Canada.

- Refactored and Unit tested large-scale web applications with methods having 1000+ lines of legacy code and improved the code by 99%.
- Took part in software design discussions with senior architects to transform application storyboards and use cases into operational software applications and improved the performance for business-critical processes by 25%.
- Design, Develop, optimize data pipelines based on the front-end and API requirements from data lakes and feed them into the cloud bases databases.
- Ensure optimal performance, quality, and responsiveness of software applications by maintenance of code quality, organization, and automation processes.
- Implemented and made user authentication system with login and logout methods along with encryption and decryption and utilized authorization header of security with API calls for safe data transactions.
- Designed RESTful API controller to handle client-side requests and developed data models, request models, and interfaces utilizing model attributes for validation.
- Utilized front-end validation, mid-tier model binding, and database procedures to ensure integrity of application data.

❖ *Asst. Commissioner (System Analyst), Full-Time, (June 2012 – December 2018) Public Service, Bangladesh*

- Used to Solicit, understand and document the customer's business requirements, processes, and workflows developing both written and visual depictions of requirements and process flows.
- Worked with developers to create the functional specifications that meet those requirements, serve as a subject-matter expert to the developers building those functions, and worked with the QA team to test the developed functionality Implements and computer system requirements by defining and analyzing system problems; designing and testing standards and solutions.
- Crafted and executed software solutions that optimized operations, enhanced efficiency, and lowered operational expenses. Formulated system specifications, use cases, flowcharts, and various documentation to provide guidance for software development.
- Directed testing initiatives, encompassing test planning, execution, and defect tracking, to guarantee system reliability. Assisted in the seamless migration of data and applications from legacy systems to contemporary platforms.
- Continuously oversaw system performance, pinpointed issues, and enacted enhancements. Worked in collaboration with the IT team to guarantee system security and adherence to industry regulations.

Academic/Personal Projects

- Developed a transportation sharing web application using PHP, JavaScript, and MySQL technology.
- Design, Develop and hosted a hospital management website which is in use by few local hospitals in South Asia.
- Developed few mobile applications using android studio in Java.
- Developed multiple small responsive websites using HTML, CSS, and JS.
- Developed and hosted full stack application using React.js, Node.js and Mongo DB.
- Completed multiple project which implemented various UML diagrams to showcase efficient project planning and Design using Enterprise Architect.