

Suraj Rawat

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Summary

Experienced software engineer with a strong background in .NET and C, boasting 3+ years of professional experience. Proficient in designing, developing, and maintaining robust applications, with a focus on delivering high-quality solutions that meet client needs. Skilled in problem-solving and debugging, with a commitment to continuous learning and staying updated with emerging technologies.

Experience

Software Engineer-II, Tripstack (Etraveli Group), Pune – July 2022 – Present

- Developed scalable backend solutions using **.NET Core** and **Web API** for various automation flows.
- Integrated airline APIs via **REST** and **SOAP** for real-time flight data and booking functionalities.
- Collaborated with product team to gather requirements and convert them into technical deliverables.
- Participated in **Agile** sprints, task estimation, and sprint planning.
- Created technical analysis documents and architectural plans to ensure scalable and maintainable designs.
- Conducted feasibility analysis and R&D for new product features and proposed technical solutions.
- Implemented **CI/CD** pipelines using **Concourse** for automated deployments.
- Utilized **PostgreSQL** and **Redis** for persistent and in-memory data storage.
- Designed and maintained **Unit Tests** and **Mock Tests** to ensure quality and high test coverage.
- Reverse engineered APIs to automate business processes as per client requirements.
- Utilized **SonarQube** for code quality checks and reporting.
- Involved in code maintenance, documentation, and post-deployment support.

- **Key Projects:**

- **AYM (Automatic Yield Management) Scraper Service:** Built a distributed scraping system to collect flight pricing data from multiple travel providers for yield optimization.
 - Developed a scalable scraping solution using **.NET 8** background workers (**IHostedService**) to process multiple scrape requests in parallel.
 - Implemented asynchronous communication using **Kafka** and **GCP Pub/Sub**; fetched and standardized provider data via **GRPC** and stored results in **Google Cloud Storage (GCS)**.
 - Created dynamic configuration using **Etc** and **Consul** and refactored legacy services into reusable components, reducing code duplication by **80%**.
- **BEST (Booking Email Service Tunnel):** Microservices-based system for managing real airline and email accounts used in bookings.
 - Developed APIs using **.NET Core Web API** to manage and track email and airline accounts across services.
 - Built background workers to auto-generate accounts based on client name using **Etc** for concurrency control.
 - **Email Fetcher Service:** Consumed **RabbitMQ** messages and fetched emails from inboxes using **IMAP**.
 - **Email Forwarder Service:** Sanitized and forwarded filtered emails to associated customers.

- Implemented cancellation/rescheduling detection through inbox parsing and automated workflows.
- **ATLAS:** Address resolution service built using **ASP.NET Core** and **Entity Framework Core**.
 - Centralized address lookup by providing accurate results based on country, state, and city.
 - Used **Redis** for caching addresses based on country to improve performance.
 - Designed reusable contracts/interfaces and integrated them into other **microservices**.
 - Ensured data consistency and reduced duplication across multiple domains.
- **Fiddler Calls Visualizer :** Built a web-based tool to visualize HTTP traffic logs captured by Fiddler.
 - Developed an interactive dashboard using **Node.js** and **Express** to process and display network traffic data.
 - Parsed **.saz** session files generated by **Fiddler** to extract request/response details and analyze call sequences.
 - Visualized request dependencies using a force-directed graph built with **D3.js**.
 - Created UI panels to inspect headers, cookies, body, and query parameters with filtering and search features using **Bootstrap**.

Skills

Programming Languages: C#, Java, Python, JavaScript, SQL

Frameworks & Libraries: .NET Core, ASP.NET Core, Web API, React.js, Node.js, Angular, Bootstrap, Mongoose, HTML, CSS

Databases: MongoDB, PostgreSQL, Redis, MySQL, SQL Server

Messaging & Event Streaming: RabbitMQ, Kafka

Cloud & DevOps: GCP, Docker, CI/CD, Concourse, Kubernetes

Tools & Platforms: Git, Bitbucket, Postman, Selenium, Fiddler, Visual Studio, VS Code, Grafana, Kibana, Jira, Confluence

Testing Frameworks: xUnit, NUnit

Collaboration & Engineering Practices: Code Reviews, PR Reviews, Agile/Scrum, Sprint Planning, Technical Documentation, Vibe Coding

Education

Bachelor of Science in Computer Science, University of Delhi 2019 – 2022
CGPA: 8.9

12th: HBSC – Holy Child Senior Secondary School, Hisar, Haryana 2017 – 2019
Percentage: 91.8%

10th: HBSC – Holy Child Senior Secondary School, Hisar, Haryana 2015 – 2017
Percentage: 92%