

Dev Balyan

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Summary

Computer Science graduate with hands-on enterprise backend development experience using **C#, .NET, REST APIs, and SQL Server**. Academic foundation in **Machine Learning, Deep Learning, Computer Vision, and NLP**, with current focus on **Azure AI and cloud technologies**. Strong foundation in Python, Data Structures and Algorithms, databases, and software engineering.

Experience

Policybazaar

Software Development Engineer 1

Sep 2026 – Present

India

- Contributing to backend services supporting health insurance workflows using **C#, .NET, REST APIs, MongoDB, React, and Microsoft SQL Server**.
- Developing and maintaining RESTful APIs for backend business workflows and service-to-service communication.
- Working with SQL Server for complex queries, joins, stored procedures, data manipulation, and backend data operations.
- Applying object-oriented programming, exception handling, debugging, and service-layer development in enterprise .NET applications.
- Using Git-based version control and collaborative development practices within an enterprise engineering environment.

Technical Skills

Languages: Python, C#, C++, Java, C, SQL

Backend: .NET, ASP.NET Core, REST APIs, Web APIs, Object-Oriented Programming

AI/ML: Machine Learning, Deep Learning, Computer Vision, NLP, RAG, Embeddings

Cloud/AI: Microsoft Azure, Azure AI, Azure OpenAI, Azure Cosmos DB, Vector Search

Databases: Microsoft SQL Server, MySQL, MongoDB, Cosmos DB

Libraries/Tools: Pandas, NumPy, Scikit-learn, Matplotlib, Git, GitHub, Playwright, BeautifulSoup

Core CS: Data Structures and Algorithms, DBMS, Operating Systems, Computer Networks

Projects

Enterprise Document Intelligence Platform | *Python, Azure AI, RAG, Cosmos DB*

2026

- Built a RAG application for semantic question answering over user-provided documents using **embeddings and vector similarity search**.
- Implemented document ingestion, text extraction, chunking, embedding generation, metadata handling, and vector indexing.
- Integrated Azure AI services with **Azure Cosmos DB vector search** to retrieve semantically relevant document context.
- Designed REST APIs for document ingestion and question answering with source-aware retrieval for grounded responses.

Distributed Job Processing API | *C#, ASP.NET Core, REST, SQL Server*

2026

- Developed a backend service for submitting, tracking, and processing asynchronous background jobs through REST APIs.
- Implemented layered architecture using controllers, services, repositories, dependency injection, and SQL Server persistence.
- Added validation, exception handling, retry handling, job lifecycle management, and structured API error responses.
- Designed idempotent operations and asynchronous processing patterns to improve reliability of backend workflows.

Intelligent Web Automation Framework | *Python, Playwright, BeautifulSoup, SQLite*

2025

- Built a bilingual Python application for automated browser workflows, structured web-data extraction, and persistent data management.
- Implemented browser automation, authentication workflows, auto-scrolling, dynamic-page handling, and exception recovery using Playwright.
- Integrated BeautifulSoup and Pandas for HTML parsing, structured data extraction, transformation, and processing.

Certifications

- **Microsoft Certified: Azure AI Cloud Developer Associate** — Microsoft, Sep 2026 (*Credential ID: 1E1712ADBFF3DD60*)
- **Microsoft Certified: Machine Learning Operations Engineer Associate** — Microsoft, Sep 2026 (*Credential ID: 1325DCB3747BD7E2*)
- **Microsoft AI & ML Engineering** — Microsoft, Coursera, Nov 2025 (*Credential ID: ROU33AW8DNN5*)
- **UiPath Certified Professional Automation Developer v1.0** — UiPath, Mar 2026 (*Credential ID: 179767981*)
- **Software Testing and Automation** — University of Minnesota, Jul 2026 (*Credential ID: Z15YDJQN6G7E*)
- **Divide and Conquer, Sorting and Searching, and Randomized Algorithms** — Stanford University, Coursera, Nov 2023 (*Credential ID: DJEAMKV3SPUQ*)

Education

Lovely Professional University

Bachelor of Technology – Computer Science and Engineering; CGPA: 8.4

Punjab, India

Sep 2022 – Aug 2026

Bhagirathi Vidyalaya

Senior Secondary – 87.6%

Dehradun, Uttarakhand

Apr 2019 – Mar 2020

Bhagirathi Vidyalaya

Secondary School – 77.2%

Dehradun, Uttarakhand

Apr 2017 – Mar 2018