

Akshay Kumar Annupoojari

Software Engineer

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SUMMARY

Results-driven Software Engineer with 5 years of experience in developing scalable applications using **Python** and **.NET** technologies. Expertise in frameworks like **.NET Core**, **Django**, and microservices, alongside strong skills in **SQL Server**, **PostgreSQL**, **MongoDB**, and cloud platforms (**AWS**, **GCP**). Proficient in **ASP.NET Core**, **C#**, **Web API**, and design patterns such as Dependency Injection and MOQ. Collaborative problem-solver, quick to adapt, and focused on delivering innovative, high-performance solutions.

TECHNICAL SKILLS

Core Languages: Python, JavaScript, C#

Web Development Frameworks: Django/Flask, React.js, HTML5, CSS3, ASP.Net Core, MVC

Cloud Platforms & Services: AWS (EC2, S3, Lambda, RDS, DynamoDB), GCP (App Engine, Compute Engine, Big Query)

ML/Gen AI Frameworks: Pandas, NumPy, TensorFlow, Scikit-Learn, NLTK, LLMs, LangChain, OpenAI, CrewAI, CipherQL

DevOps & CI/CD: Docker, Kubernetes, Jenkins, Git, Terraform

Databases & Data Engineering: SQL (MySQL, PostgreSQL, SQL Server), NoSQL (MongoDB, Cassandra, DynamoDB), Redis, Apache Kafka, AWS Glue

Software Design & Architecture: Microservices, RESTful APIs, GraphQL, Message Queues (RabbitMQ, AWS SQS)

Agile & Collaboration Tools: Agile/Scrum Methodologies, JIRA.

Operating Systems & Development Environments: Linux/Unix, Windows, Virtualization (VMware, VirtualBox)

PROFESSIONAL EXPERIENCE

Eli Lilly and Company, India | Software Engineer

June 2022 – December 2023

- Constructed dynamic and responsive web applications using **ReactJS**, **CSS3**, and **JavaScript**, enhancing user experience and streamlining frontend performance for modern web platforms.
- Designed and optimized complex queries in **MySQL** and **SQL**, improving database performance and reducing query execution time by **30%** while ensuring data integrity and accuracy.
- Engineered scalable solutions by leveraging **AWS services**, including **EC2**, **S3**, and **Lambda**, to optimize application performance, reduce operational costs, and ensure high availability for software systems.
- Developed scalable and high-performance software solutions by leveraging Python for backend development, **Django** for web frameworks, and **MongoDB** for efficient NoSQL database management.
- Implemented robust cloud architectures leveraging AWS services such as RDS for seamless database operations and **Lambda** for event-driven workflows, enhancing system scalability by **35%**.
- Built and automated end-to-end ETL workflows using Jenkins pipelines, streamlining data integration processes and reducing pipeline execution time by **25%** while improving data accuracy.
- Streamlined incident response workflows using **Python**, **Shell scripting**, and **Lambda**, saving **40%** of support hours by leveraging **CloudWatch** and **Splunk** for monitoring.

CGI, India | Software Engineer

April 2021 – May 2022

- Utilized **Agile** methodologies and Test-Driven Development (TDD) to deliver high-quality, scalable software solutions, ensuring faster iterations and **30%** improvement in code reliability.
- Built and deployed high-performance applications leveraging both **.NET** and **.NET Core** frameworks, optimizing code efficiency and reducing load times by **20%** for improved system performance.
- Implemented robust CRUD functionality with **Entity Framework** in **WEB API**, including advanced sorting, filtering, and paging features, which improved data accessibility and user interaction by **40%**.
- Effectively implemented the Unit of Work and Repository pattern with Entity Framework (code-first approach) and **LINQ** for the architecture of Web API, which enhanced code maintainability and reduced technical debt by **20%**.
- Leveraged **Python** and **AWS Glue** to design and optimize ETL pipelines, achieving a **40%** reduction in data processing time and enhancing workflow efficiency for large-scale datasets.

Atyati Technologies, India | Software Engineer

August 2019 – April 2021

- Designed and developed sophisticated views and controllers using **ASP.NET MVC** and **C#**, enhancing application performance and user experience by **45%**.
- Employed **LINQ** in **C#** to optimize data queries and simplify intricate data manipulations, achieving a **25%** increase in processing efficiency for large datasets.
- Manufactured scalable data processing solutions on **GCP**, leveraging **Compute Engine** and **BigQuery** to optimize data analytics workflows and drive actionable insights.
- Built **machine learning** pipelines with **Python**, **Scikit-Learn**, and **Pandas**, enhancing model accuracy by **25%**, while leveraging **NLTK** to automate text analysis and streamline natural language processing tasks.
- Engineered high-performance web applications using **React.js**, **advanced CSS3**, and **JavaScript**, seamlessly integrating **PostgreSQL** for optimized data handling, resulting in a **30%** boost in user engagement and application efficiency.

EDUCATION

Masters in Computer Science | GPA: 3.9/4

Florida Atlantic University, Boca Raton, USA.

Bachelors in Computer Science | GPA: 7.5/10

Visvesvaraya Technological University, Belagavi, India.