Aniket Kumar

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Summary

Computer Science graduate student with 4+ years of experience specializing in backend development and data engineering. Strong Object-oriented programming skills and experienced in cloud technologies, known for building and delivering high-quality, scalable and modular RESTful microservices to enhance user experiences. Committed to staying current with industry trends and continuously improving skills.

Skills

Languages: Java, Python, C, C++, SQL, Go, JavaScript, TypeScript, HTML5, CSS.
Web Development: React.js, Node.js, Flask, Spring Framework.
Databases: MySQL, MongoDB, PostgreSQL, Redis, DynamoDB, Cassandra, Hive, NoSQL.
Infrastructure and Cloud Services: AWS, Azure, Docker, Kubernetes, Elastic Search.
Algorithm and Design: Algorithms, Design Patterns, Object-Oriented Design, Microservices.
Version Control and Collaboration: Git, Jira, Confluence, Scrum, Agile methodologies, Jenkins, CI/CD.
others: Figma, gRPC, Apache Kafka, Spark, JSON, XML, REST, SOAP, MVC, Maven, Spring MVC, JPA, Hibernate

Work Experience

Applied Bell Curve — Software Development Engineer-2
Bangalore, KA, India — *February 2023 - August 2024*

- Utilized Flask for backend development across all aspects of the application, including Updating User details in DynamoDB, Fetching User details, and Handling user authentication during registration and login.
- Architected and implemented RESTful and GraphQL APIs serving thousands of daily requests, optimizing response times by 35%.
- Implemented Celery for task queues and Redis for caching, improving system response times during high-load periods.
- Spearheaded the transition of the code base to Python 3.9 and Dockerized the entire application, enhancing deployment speed and developer productivity.
- Improved code quality and maintainability through the introduction of TDD/BDD practices, reducing production bugs by 30%.
- Led the development of Applied Bell Curve's Flagship Dashboard using React.js, reducing load time by 30% and providing personalized User experiences.
- Implemented responsive and accessible design, ensuring compatibility across multiple devices and browsers, boosting user engagement by 25%.
- Developed a comprehensive forecasting model to predict cotton prices utilizing multiple machine learning algorithms including XGBoost, Adaptive Boost, ARIMA, SARIMAX, and LSTM. Conducted comparative analysis and determined that the LSTM model achieved superior accuracy, closely mirroring actual price trends and outperforming other models in predictive performance.

Wipro Technology — Senior Data Engineer
Bangalore, KA, India — *September 2020 – January 2023*

- Designed, developed, and maintained ETL mappings and workflows applying the business rules, creating Technical Design and Unit Test Case Documents
- Developed and maintained data models and dashboards using BI tools such as Power BI, providing actionable insights to stakeholders and enabling data-driven decision making.
- Designed, developed, and maintained Azure data pipelines using services such as Azure data factory, Azure blob storage, Data lake storage and Azure Data Pipeline to automate data ingestion, transformation, and loading tasks.
- Contributed to the orchestration of a scalable micro-services architecture, resulting in a 30% performance boost with Docker and PySpark .
- Monitored and troubleshooted data pipelines to ensure optimal performance and data integrity, proactively addressing any issues to minimize downtime and maximize productivity.
- Utilized Spark SQL API in PySpark to extract and load data, and performed SQL queries, enabling efficient data processing and analysis.

- Designed and Developed ETL jobs to extract data from different sources and load it in data mart in Azure Data Lake Storage and managed clusters such as launching the cluster by specifying the nodes and performing the data analysis.

Software Development Intern January 2020 – August 2020

ShikshaSopan *IIT Kanpur, India*

- Developed dynamic, single-page applications (SPA) using ReactJS, JavaScript (ES6), and Redux.
- Utilized React Router to create seamless, navigation-rich experience for users, increasing user engagement by 20%.
- Optimized website performance by implementing code-splitting, reducing initial load times by 40%.
- Collaborated with backend developers to integrate REST APIs and implement JWT-based authentication for user management.
- Participated in daily Scrum meetings, sprint planning, and retrospectives to ensure on-time delivery of features.

Projects

Gitlytics | *Python, Flask, React, PostgreSQL, Docker*

- Developed a full-stack web application using with Flask serving a REST API with React as the frontend
- Implemented GitHub OAuth to get data from user's repositories
- Visualized GitHub data to show collaboration
- Used Celery and Redis for asynchronous tasks

Simple Paintball | *Spigot API, Java, Maven, Travis CI, Git*

- Developed a Minecraft server plugin to entertain kids during free time for a previous job
- Published plugin to websites gaining 2K+ downloads and an average 4.5/5-star review
- Implemented continuous delivery using Travis CI to build the plugin upon new release
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

Education

University at Buffalo Buffalo, New York

Master's in Computer Science *August 2024 – December 2025*

Relevant Coursework: Intro to ML, Data Intensive Computing, Design and Analysis of Algorithms

Vellore Institute of Technology Chennai, India

B.Tech in Electrical and Electronics Engineering *March 2016 – May 2020*

Relevant Coursework: Data Structure, Operating Systems, Computer Networks, Artificial Intelligence, Web Services and Technology