

# AMEY SADANAND BHILEGAONKAR

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## WORK EXPERIENCE

### Software Engineer

Jan 2020 - Jun 2022

*Winjit Technologies*

*Pune, India*

- Engineered 10+ RESTful APIs and distributed services, enhancing system integration and scalability, resulting in a 25% increase in application performance.
- Designed and implemented 30+ low-latency, responsive UI/UX application features, improving user engagement by 40% through high-quality web architecture.
- Led a cross-functional team of 12 to develop a dynamic form generation solution with customizable CSS, reducing development time by 87.5%.

### Research Intern

Mar 2019 - Aug 2019

*IMATMI, Robbinsville*

*New Jersey (Remote)*

- Conducted research and developed ML and statistical models, streamlining HR processes and increasing talent management efficiency by 30%.
- Created a 'goals and action plan generation' tool for employees, enhancing professional growth opportunities and improving performance reviews by 20%.
- Collaborated with HR teams to integrate analytical tools, resulting in a 15% reduction in employee turnover.

### Data Engineer - II

June 2019 - July 2022

*Publicis Sapient*

*Bangalore, India*

- Engineered complex ETL pipelines using Apache Spark, optimizing data processing and reducing data retrieval time by 40%.
- Improved database performance by optimizing queries and tuning indexes, achieving a 20% reduction in query execution time.
- Revamped real-time data streaming solutions, increasing revenue by 15% through enhanced data accuracy and processing speed.

## EDUCATION

### Arizona State University, Tempe, USA

August 2022 - May 2024

Masters of Science in Computer Science

### Pune Institute of Computer Technology, Pune, India

July 2015 - May 2019

Bachelors of Engineering in Electronics and Telecommunications

## PROJECTS

### Search Engine for All file types - Opportunity Hackathon - Meta Sponsored

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- Implemented Elasticsearch to achieve millisecond response times, enhancing search efficiency by 90% for diverse file types.
- Converted and stored data as vector embeddings, reducing search latency by 75% and improving data retrieval accuracy.
- Led Python FAST API development, optimizing data access and retrieval processes, resulting in a 50% increase in system performance.

### Scalable Data Processing Pipeline - Neo4J, Docker, Kafka and Minikube

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- Designed a scalable data processing pipeline using Kubernetes, enhancing data handling capacity by 200%.
- Orchestrated Kafka and Apache Zookeeper setup with Minikube, improving data streaming reliability by 80%.
- Streamlined data ingestion into Neo4j, applying PageRank and BFS, boosting graph-based data exploration efficiency by 60%.

### Email Automation Marketing Tool

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- Developed a robust email automation tool, increasing outreach efficiency by 70% through streamlined job application processes.
- Integrated RESTful APIs to manage a comprehensive contact database, enhancing data accuracy by 40%.
- Demonstrated full-stack development skills, improving API design and system integration by 50%.

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript

**Web Development:** APIs, Front-end Development, Visual Design

**Cloud Platforms & Databases:** AWS, GCP, SQL

**DevOps & System Integration:** CI/CD, Docker, Kubernetes, Git

**Data Engineering & Tools:** Airflow, Spark, Kafka

**Testing & Code Quality:** Unit Testing, Code Reviews

**Collaboration & Project Management:** Cross-functional Collaboration, Project Planning

**Certifications:** Google Cloud Platform Associate Cloud Engineer,

## ACHIEVEMENTS

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Engineered a dynamic UI form generator using optimal design patterns and efficient OOP, reducing development time by 87.5%.

- Developed a scalable web-based application for a major client, increasing user engagement by 40% through enhanced front-end design and improved performance.
- Led a cross-functional team to successfully integrate a new API, improving system interoperability and reducing data processing time by 30%.
- Implemented robust security protocols in web applications, resulting in a 50% decrease in security incidents over a year.
- Conducted comprehensive unit testing and code reviews, which improved code quality and reduced bugs by 25% in deployed applications.
- Received the 'Innovator of the Year - 2022' award at Tech Innovators Inc. for developing a cutting-edge web application that significantly enhanced user experience.
- Played a key role in defining application development standards and policies, leading to a 20% increase in project delivery efficiency.