

BIKASH ACHARYA

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EDUCATION

Northern Kentucky University
Bachelor of Science in Computer Science, Minor in Data Science

January 2021 - December 2024

SKILLS

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

Web & Frameworks: Node.js, Next.js, React.js, Express.js, Spring Boot, Flask

DevOps and Tools: Git, Azure DevOps, CI/CD, RESTful APIs, Jira, Unit Testing

Databases and Big Data: PostgreSQL, MongoDB, MySQL, Apache Spark, Apache Kafka

EXPERIENCE

Software Engineer - RA ([Conference Paper](#), [Conference Paper](#)), *Northern Kentucky University* April 2024 - January 2025

- Led development of sentiment analysis model achieving 86% accuracy on 21M professor reviews using DistilBERT model
- Streamlined data processing pipeline with PySpark reducing model training time by 30% (20 to 14 hours)
- Leveraged NLTK and sentiment analysis algorithms to identify educational trends from professor's review data

Systems Analyst, *Fidelity Investments* May 2023 - April 2024

- Troubleshoot and debugged over 150 technical requests per month within Salesforce platform, including Apex code, SQL queries, reports, dashboards, and integration issues, reducing average resolution time by 20%
- Orchestrated data migration of 1M+ records with 0% data loss using SQL and Salesforce Data Loader
- Generated 10+ dashboards and 50+ reports using SQL queries and salesforce tools for tracking essential KPI metrics
- Authored 5+ comprehensive documents on processes, troubleshooting procedures and code for team collaboration

Microsoft 365 Support Ambassador, *Education at Work* May 2022 - April 2023

- Managed and resolved technical issues in Microsoft 365 with a 95% customer satisfaction rate
- Administered user access control for over 1000s of users through Microsoft Admin Center and Azure Active Directory, enhancing system security and efficient user management.
- Configured and maintained Microsoft Exchange domains and mail servers, achieving 99.9% email uptime

PROJECTS

AI-Powered Job Portal – Software Engineer (*Next.js, TypeScript, PostgreSQL, Express.js, Azure, llama3.1*) [Demo](#)

- Designed an AI-powered job search app using Next.js, Express.js, and PostgreSQL for personalized job recommendations
- Built RESTful APIs for job recommendations, user profiles, and resume uploads, achieving a 40% improvement in recommendation accuracy through Llama3 AI model integration
- Deployed microservices architecture using Docker in Azure, reducing deployment time by 50%
- Utilized Azure Blob Storage for storing resumes and profile pictures, ensuring scalability and security

BloodBond – Software Engineer (*Next.js, AWS, PostgreSQL, Node.js*) [Demo](#)

- Developed a centralized blood donation platform using Next.js and Node.js, enabling real-time blood search and requests for hospitals and blood banks
- Automated donor matching system that reduced manual search time by 60% by identifying and notifying compatible donors
- Designed an inventory management system to track blood supply across multiple institutions for better blood management

BINGO Web Game – Software Developer (*JavaScript, Web Sockets, MongoDB, Azure*) [Demo](#)

- Engineered a real-time multiplayer Bingo game using JavaScript, WebSockets, and MongoDB for backend data storage
- Enhanced gameplay interaction latency by 60% through WebSockets implementation for real-time communication

Mastermind – Software Engineer (*Java, Multithreading, Socket programming*) [Demo](#)

- Built a multithreaded Java client-server application for real-time Mastermind gameplay for communication between players
- Implemented socket programming enabling concurrent gameplay for multiple player sessions

OTHER INVOLVEMENTS

Vice-President, College of Informatics Ambassadors: Led 10+ technical workshops, and recruitment events engaging 500+ students

STEM Peer Mentor, Northern Kentucky University: Mentored 70+ first-year STEM students over 2 years, providing academic guidance