

Bibash Kafle
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PROFESSIONAL SUMMARY

Experienced Software Engineer with 10+ years of expertise in developing scalable applications. Adept in modern software development technologies and methodologies, with a proven track record of designing and implementing solutions that improve efficiency and performance. Passionate about leveraging cutting-edge technologies to solve complex problems.

TECHNICAL SKILLS

Programming Languages: C#, Java, Python, JavaScript (Node.js, Angular, React), TypeScript

Frameworks & Tools: .Net Core, MVC, Spring Boot, Express.js

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

Web services: REST, SOAP

Cloud Technologies: Azure, AWS

Platforms: Windows, Linux (Ubuntu), Docker

WORK EXPERIENCE

Navy Marine Corp Relief Society

Senior Software Engineer

Jan 2024 – Present

Arlington VA

- Built full cloud native, containerized **.NET microservices** using Minimal API architecture.
- Deployed to **Azure Container Apps**.
- Implemented CI/CD pipelines in **Azure DevOps** for multi-environment deployments.
- Developed **frontend** with **Angular 16+** integrated into **microservice architecture**.
- Used **GraphQL** to query and aggregate data across distributed microservices.
- Implemented **Azure Application Insights** to monitor application performance and diagnostics.
- Built internal admin tooling for centralized access control using **Azure Service Bus** and **Event Grid**.
- Used **Databricks** to migrate **SQL** based data to **NoSQL** database.
- Automated UI and API testing using **Playwright**.
- Worked with **Azure services** including **Functions, Dapr, Service Bus, Event Grid, Cosmos DB, Key Vault**, and monitoring tools.

Can Softtech Inc

Government Contract Software Engineer

Dec 2020 – Dec 2023

Herndon VA

- Developed an application for Berkeley National Laboratory to visualize power outage areas during hurricanes in coastal regions and deployed it on **AWS Cloud**.
- Re-engineered the U.S. Air Force claims portal using **.NET, React, MongoDB**, and **Docker**, integrating **Redis Cache** for improved performance and scalability, and deployed it on **Azure Government Cloud**.
- Created infrastructure scripts using **ARM** templates to automate the deployment of Azure resources.

- Developed an application for the Federal Aviation Administration to streamline applicant hiring and background check processes using **.NET 8** and **Angular**.
- Designed and implemented a custom web automation testing framework using **Selenium** and **Cucumber**, enabling efficient regression and end-to-end testing with improved accuracy and reusability.
- Developed a desktop client application using **WebView2** and Rust to organize and execute automation test steps, providing a streamlined and efficient user interface for test management.
- Developed a mobile application using the **Ionic framework** to seamlessly transform web applications into mobile-friendly solutions, enhancing accessibility and user experience.

Corp tax Inc

Software Engineer

March 2020 – Dec 2020

Buffalo Grove IL

- Designed and developed a web application with **ASP.NET MVC** and a desktop application using Windows Forms and DevExpress to streamline tax automation processes.
- Enhanced existing web-based applications by developing and implementing new components using **Angular**, **TypeScript**, **CSS**, **jQuery**, and **JavaScript**.
- Migrated legacy desktop software from an embedded Internet Explorer framework to an embedded Chromium platform, improving performance, compatibility, and security.

Insurance Auto Auction

Software Engineer

Jan 2019 – Feb 2020

Westchester IL

- Designed and developed a dedicated financial **microservice** to handle transactions and payments within a large-scale auction system.
- Designed and implemented an automation service that processes instructions from a messaging queue to execute repetitive tasks, optimizing workflow efficiency and system integration.
- Designed and developed **APIs** and **web services** to enable communication between multiple applications and devices.
- Developed **SQL** jobs and Windows Services to efficiently manage background processes and scheduled tasks, ensuring seamless and automated operations.
- Integrated a **credit card payment system** to facilitate instant payment processing within the financial system.
- Created detailed **technical documentation** and generated **UML diagrams** to represent system architecture, component interactions, and workflows.

Honda R&D Americas Inc

Software Developer

Feb 2018 – Dec 2018

Raymond Ohio

- Contributed to an existing project by resolving issues and adding new features to manage the vehicle test lifecycle.
- Developed an application to aggregate data from various sources, including email, web services, and hardware devices Using **ASP.NET**.
- Built a **.NET** web app for real time CCTV streaming and remote engine monitoring.
- Built **RFID** based app for real-time equipment tracking across research and test areas.
- Enhanced mobile responsiveness and accessibility of **Angular** based Web UI.
- Developed **SQL stored procedures** to refine data, generate reports, and produce visual graphs for analysis.

- Automated scheduled data downloads and processing using **Hangfire** in **.NET**.

International Money Express (IME)

Software Engineer

Oct 2012 – Nov 2016

Kathmandu, Nepal

- Led development of a cross-border remittance application using **ASP.NET** and **SQL Server**, overseeing project planning, execution, and delivery.
- Contributed to the development of IME Pay, a **payment gateway** for general customers in Nepal, including integrating fund transfers between accounts and enabling transfers to external banks.
- Managed the full SDLC, ensuring timely delivery and adherence to best practices in design, development, and testing.
- Implemented global watchlist integration for sanctions screening, ensuring **OFAC compliance** in financial transactions.
- Developed **SOAP** and **REST APIs** to integrate remittance services and third-party bank APIs for seamless transactions.
- Enhanced security by integrating **YubiKey** hardware for multi-factor authentication, mitigating phishing risks.
- Integrated **OCR** technology to automate reading of MRP documents, improving processing efficiency.
- Optimized **SQL** queries using transaction and singleton patterns to improve database access and performance.

EDUCATION

Master of Science in Computer Science

Maharishi University of Management – Fairfield, Iowa

Start Date: 2016 December, End Date: 2019 January

Bachelor of Computer Applications

Makhanlal Chaturvedi National University, Bhopal, India

Start Date: 2009 June, End Date: 2012 July

Work Authorization: U.S. Permanent Resident (Green Card Holder)