Bijay Shakya
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EDUCATION

Master of Science in Computer Science, Dakota State University, South Dakota, SD; GPA – 3.9   December 2019
Bachelor of Engineering in Computer Engineering, Kathmandu University, Nepal; GPA - 3.16   June 2015

WORK EXPERIENCE

Dakota State University, Madison, SD   January 2019 - December 2019
Research Assistant

NSF Cyber-Training Project
- Designed a website prototype for Dakota State University Cyber-Lab using Laravel Framework, MySQL, AWS API that provides the students with virtual computing lab services which can be accessed anytime, anywhere.
- Performed the application testing and deployed the application to web server using Apache2.
- Presented tutorial on launching AWS EC2 instance, PuTTY configuration, LAMP installation.
- Assisted undergraduate students to setup equipment for Internet of Things security research work.

Rigo Technologies, Nepal   March 2019 – December 2019
Software Engineer
Technologies Used: .NET Core, PostgreSQL, Dapper, Entity Framework Core, HTML5, CSS, ReactJS, Git

- Served as team leader for back-end developer providing technical ideas to develop quality code.
- Developed E-Learning site using .NET Core, PostgreSQL, Entity Framework Core, Dapper, ReactJS.
- Team player to research new technologies that will increase development productivity and application performance.
- Built asynchronous web services using REST API, LINQ, Entity Framework Core to handle numerous requests.
- Created Web Hook to automatically synchronize video interaction data to the system on specific event calls.
- Supervised junior engineers, interns providing technical guidance and involved in performance reviews.

Spiralogics Inc, Nepal   April 2016 - September 2017
Mid-Level Software Engineer
Technologies Used: .NET MVC, SQL, MySQL, Entity Framework, LINQ, HTML5, CSS, jQuery, DevExpress, SVN

- Responsible in creating solution design and development of the worker compensation and HealthCare project.
- Followed Agile Methodology to work on sprint deliverables including regular stand-up meeting, sprint planning.
- Optimized the database performance by creating stored procedures, views, functions to handle complex SQL queries.
- Designed ETL automation module with data validation and email notification that minimized the workload by 80%.
- Responsible for deploying the verified modules to IIS server.
- Implemented Entity Framework (EF), LINQ to simplify CRUD operations reducing development time and cost.

Verisk Information Technologies   September 2015 - April 2016
Software Engineer Intern

- Constructed HealthCare Report Generating Parser using C#, XML that expedited document parsing by 25%.
- Implemented ASP.NET MVC to develop healthcare application modules and performed unit testing using N-Unit.

TECHNICAL SKILLS

Programming Languages / Framework:	C, C# .NET 4.5, OOP, ASP.NET Core, ASP.NET MVC, Web Forms, WinForms, ADO.NET, REST API, LINQ, Web Services, HTML5, CSS, Bootstrap, DevExpress, jQuery, JavaScript, AJAX, JSON, ReactJS, Python, Dapper, EF
Database & Data Warehousing Tools:	SQL, MySQL, PostgreSQL, PL/SQL, SSIS, SAS, Weka, SQL Profiler
Application IDE Tools:	Visual Studio, Visual Studio Code, Sublime Text, POSTMAN, Workbench
Testing Environment:	MS Unit, N-Unit, Selenium
Version Control:	SVN, GitHub, Git, Bitbucket, Azure DevOps