

AASHISH KOIRALA

FULL STACK DEVELOPER & HANDS-ON SOFTWARE ARCHITECT

Massachusetts, USA
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16 years' hands-on experience designing, building and maintaining secure and scalable applications. Major experience with C#/.NET, SQL, JS with recent focus on microservices, DevOps and building cloud native applications with .NET Core, Azure, AWS and Kubernetes.

GitHub: <https://github.com/aashishkoirala>
Website/Blog: <https://www.aashishkoirala.com>

EXPERIENCE

EBSCO Information Services

Ipswich, MA

System Architect 2020 – Present

- Worked on transition of eBooks platform from on-prem SQL Server based monolith to microservices on AWS using Kubernetes (EKS), Lambda and NoSQL; worked in an Agile SAFe environment

Bond-Pro Remote

Chief Architect 2019 – 2020

- Designed and built microservices based surety bond submission system using .NET Core, Azure, EF Core, Kubernetes, Docker, Terraform and Angular
- Led Agile offshore team; also acted as DevOps resource

Vistra/Radius/HSP Bedford, MA

Architect 2015 – 2019

Technical Lead 2012 – 2015

- Ported on-prem IIS based system to cloud-native Azure PaaS
- Rewrote service and security stack; rebuilt frontend using Angular, SignalR
- Built global payroll system that supports 150 customers across 20 countries
- Built workflow orchestration system based on Service Bus Messaging
- Led Agile offshore team; also acted as DevOps resource

Verisk Health Waltham, MA

Engineering Director 2012-2012

Engineering Manager 2011-2012

Principal Engineer 2008-2011

- Took over post-acquisition abandoned codebase, revived and re-engineered it; became the resident expert for the system that then served as the company's flagship healthcare analytics platform
- Introduced standard ETL tools and practices to the BI delivery process
- Helped transition the software development process from waterfall to Agile
- Led and managed Agile onshore and offshore teams

D2Hawkeye Services Kathmandu, Nepal

Software Architect 2007 – 2008

Senior Software Engineer 2005 – 2007

Software Engineer 2004 – 2005

- Built and maintained 12 medium to large scale custom software projects using .NET, Java, C++, SQL Server and Oracle for multiple clients
- Led and managed multiple development teams

.NET/.NET Core	C# • ASP.NET Core • EF Core • WinForms • WPF • MVC • WebAPI • SignalR • IdentityServer • WCF • Razor
Frontend/JS	JavaScript (ES5/6) • TypeScript • Angular • React • Webpack • NPM • HTML • CSS
Databases	SQL Server/T-SQL • MongoDB • ElasticSearch • Redis • CosmosDB • DocumentDB • DynamoDB
Architecture	Microservices • DDD • SOA • SOLID • REST • 12-Factor • 4+1 • UML • GoF • Containers
Messaging	RabbitMQ • Kafka • Azure Service Bus • AWS SQS/SNS
Security	OAuth2/OIDC • WS-Fed • SAML • OWASP
Tools	Git • PowerShell • Bash • Helm • Visual Studio • VS Code
Platforms	Azure • AWS • Kubernetes • Docker • Linux • Windows • Serverless
DevOps	Azure DevOps • Jenkins • Terraform • Ansible • FluentBit • Kibana • Prometheus • Grafana • Jaeger
Cloud (Azure)	Kubernetes (AKS/ACR) • SQL • CosmosDB • Storage • AD • Service Bus • Functions • App Service • ACI
Cloud (AWS)	Kubernetes (EKS/ECR) • DocumentDB • DynamoDB • Lambda • SQS • SNS • Beanstalk • S3 • Fargate
Other Stacks	Java • Go • F# • Rust • Python • Node

EDUCATION

M.S. in Computer Systems Engineering Boston University, Boston, MA, 2010

B.E. in Computer Engineering Tribhuvan University Institute of Engineering, Nepal, 2005