ORIFJON NARKULOV

Cloud Engineer | Solution Architect | M.S. in Computer Science | <u>4x AWS Certified</u>
(Expert in C#, Python, JavaScript (Angular, React, Node.js), ElasticSearch, and AWS Cloud)

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With over 17 years of experience in developing cutting-edge software solutions, I specialize in designing and implementing modern, scalable architectures using advanced design patterns, algorithms, and methodologies. I have a strong background in architecting web services following microservices principles ensuring modularity, independence, and seamless communication through well-defined messaging systems integrated with cloud solutions. My expertise includes containerizing applications to deliver secure, reliable, and lightweight runtime environments. I've also developed automation tools on AWS Cloud that empower engineers to easily spin up cloud resources, allowing them to deploy code without worrying about maintenance, scaling, or security. Additionally, I've built powerful search engines that process data, prioritize search fields, and return highly relevant results. Proficient in exception handling and a wide range of testing (unit, integration, functional, performance), I consistently deliver high-quality products that drive increased revenue, client satisfaction, efficiency, and productivity.

EXPERIENCE

Senior Cloud Engineer | Anywhere Real Estate INC., Madison, NJ, USA   *July 2023 to present*

- Collaborate with 12+ development teams to architect and deliver scalable AWS solutions using Infrastructure as Code (AWS CDK and Node.js), accelerating environment provisioning and increasing team autonomy.
- Designed and implemented internal GitLab private runners, reducing CI/CD pipeline costs by 70% monthly by leveraging in-house compute resources.
- Built and maintain the Engineering & Quality Dashboard by integrating data across GitLab, BitBucket, and Azure DevOps; enabled real-time visibility into deployments, pipeline success rates, and development metrics via DataDog.
- Developed automation services in Node.js to process webhooks and sync pipeline/job/release data with DataDog, improving observability and incident response time by 30%.
- Created multiple DataDog dashboards to monitor key AWS components (EC2, Lambda, EKS, etc.) and troubleshoot production issues, leading to a 40% drop in MTTR (Mean Time to Recovery).
- Support cloud adoption and infrastructure decisions across teams; provide architectural guidance, unblock engineers, and deliver training on best practices for cloud-native development.
- Report directly to the Principal Cloud Architect and serve as the go-to engineer for AWS cost optimization and CI/CD troubleshooting.

Technologies: AWS CDK, Node.js, Python, GitLab, BitBucket, Azure DevOps, DataDog, EC2, Lambda, S3, CloudFront, WAF, ECS, EKS, SNS, SQS, EventBridge, Confluent Kafka

Lead Software Engineer | Cricut INC., South Jordan Utah, USA   *September 2018 to July 2023*

- Led a cross-functional team of 6 engineers and collaborated with QA, product owners, and analysts to design microservices and event-driven systems for Cricut Design Space, supporting millions of global users.
- Architected and implemented ElasticSearch-powered microservices for images, fonts, and projects search — reducing latency by 60% and boosting relevance scores, which directly increased digital content revenue.
- Refactored legacy search infrastructure by restructuring over 1 billion records into ElasticSearch cross-cluster indices, improving indexing speed by 5x and scalability across environments.
- Designed a Graph-based social microservice using Neo4j to model relationships between users, profiles, and content — enabling faster lookups and improving search speeds for complex queries.
- Migrated monolithic components to containerized services using Docker and AWS ECS, which improved deployment frequency and reduced infrastructure costs by 4x.
- Integrated AWS messaging (SNS, SQS, Kafka) for real-time event processing across microservices, enabling decoupled, fault-tolerant architecture.
- Developed and executed load and stress tests to identify system bottlenecks; proactively addressed issues that could affect production reliability and uptime.

- Reported to the Director of Software Engineering and mentored junior developers, providing code reviews, design guidance, and architectural training.

Technologies: C#, ASP.NET Core, Node.js, Docker, PowerShell, ElasticSearch, Neo4j, AWS (Lambda, ECS, EKS, S3, RDS, OpenSearch), MongoDB, DocumentDB, Aurora MySQL, Kafka, SNS/SQS.

Senior Frontend Engineer | PROKARMA INC., Denver Colorado, USA   *September 2017 to August 2018*

- Developed Angular-based front-end applications for a major healthcare provider, improving usability and accessibility across doctor-provider communication platforms.
- Integrated RESTful APIs and security layers to meet HIPAA compliance standards and protect sensitive patient data.
- Built a custom admin portal allowing real-time content management, inventory tracking, and secure role-based access — increasing internal efficiency by 40%.
- Enhanced application performance by optimizing build times, router state management, and module lazy-loading, resulting in a 2x improvement in load speed.
- Achieved 95% unit and integration test coverage, leading to a significant reduction in post-release defects and faster QA cycles.
- Designed modular components using Angular Material and enforced UI/UX consistency across multiple projects.
- Collaborated closely with backend engineers and designers to align UI development with service contracts and user expectations.

Technologies: Angular 2/5, TypeScript, RxJS, Redux, Node.js, Angular Material, HTML/CSS, Azure Cloud, Git, Postman.

Team Lead | UCD MICROS B.V., Tashkent, Uzbekistan   *June 2008 to September 2017*

- Led end-to-end development of enterprise websites, e-commerce platforms, and desktop applications across Europe, reporting directly to the company's CEO.
- Spearheaded the creation of ASP.NET MVC templates that reduced development time by 75% (from 1 month to 1 week), accelerating project delivery and increasing customer onboarding rate.
- Designed and launched major e-commerce platforms (e.g., Bodylab24.de, Duursport.nl), integrating payment gateways (PayPal, Klarna, Amazon Pay) and logistics APIs (DHL, FedEx), which led to a 3x increase in online revenue.
- Architected a construction customization system that boosted client revenue by 5x while cutting operating costs by 90%.
- Built automated caching and data synchronization solutions that improved front-end performance and reduced load times by up to 400%.
- Designed and implemented internal HR, procurement, and inventory systems that streamlined operations and scaled with company growth.
- Oversaw a team of up to 5 developers, assigning tasks, reviewing code, and mentoring junior engineers.

Technologies: ASP.NET MVC, C#, JavaScript, TypeScript, RESTful APIs, SQL Server, Redis, Git, Docker.

EDUCATION
M.S. in Computer Science - Maharishi University of Management. Iowa, USA *(*2018, 3.5 GPA*)*
B.S. in Computer Science - Tashkent University of Information Technologies. Tashkent, Uzbekistan (2008, 3.8 GPA)