Mahad Khan

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Experience

Senior Software Developer - Lead   Toronto
SSENSE   Jun 2020 - Present

- Promoted rapidly through four developer levels from Software Developer I to Senior Software Developer & Tech Lead.
- Orchestrated the zero-downtime launch of a new Warehouse Management System (WMS), impacting over $500M in annual order fulfillment and improving inventory accuracy by 15%.
- Led a team to launch a Product Measurement Tool, architecting event-driven workflows with AWS Step Functions, SQS, and SNS that reduced measurement processing time by 40%.
- Developed and deployed over 100 AWS Lambda functions in TypeScript, forming the core of a scalable, serverless microservices architecture for critical systems.
- Pioneered the migration of legacy services to a serverless architecture, slashing operational costs by 30% and increasing deployment frequency by 20%.
- Authored 20+ Architecture Decision Records (ADRs), modeled complex business processes using BPMN, and mentored junior developers in best practices for DDD and serverless development.
- Engineered Datadog dashboards and proactive alarms, reducing Mean Time to Resolution (MTTR) for production incidents by 25%.

Software Developer Intern   Montreal
The Montreal Neurological Institute   Jun 2019 - Sept 2019

- Engineered and launched a Moodle-based e-learning platform for 50+ researchers, improving platform stability by 30% through a comprehensive test suite.

Cloud UI/UX Developer - Co-op   Ottawa
IBM   Sept 2019 - Dec 2018

- Developed cloud-native Node.js applications and testing frameworks on IBM Cloud, contributing to a 15% faster feature delivery cycle.

Network Engineering Intern   Toronto
Cisco   May 2017 - Sept 2017

- Contributed to the maintenance and documentation of critical LAN/WAN infrastructure helping maintain 99.9% network uptime.

Technical Skills

Languages: Typescript, Javascript, Python, Java
Cloud/AWS: AWS Lambda, Step Functions, DynamoDB, API Gateway, S3, SQS, SNS, Kinesis, CloudFront, CloudFormation, IAM, CloudWatch, Serverless Framework, SAM, Route 51
Databases: MySQL, PostgreSQL, NoSQL
Tools and Methodologies: Domain-Driven Design (DDD), CI/CD, Jenkins, Git, JIRA, Agile, Scrum, Microservices, Event-Driven Architecture, Lucidchart, LaunchDarkly, Datadog, PagerDuty

Certifications and Publications

Certification: AWS Certified Solutions Architect – Associate (Issued 2023)
Publication: Domain-Driven Design - Effective Domain Modeling and its Perks (Medium, SSENSE-Tech)

Education

McGill University   Montreal
BEng, Computer Engineering   2020