



Advait Patel

Cloud SE | SRE | Amazon Web Services Certified
Solutions Architect & Developer

Greater Chicago Area

Information Technology and Services



Aspect Software



Machfu Inc.



DePaul University

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Summary

I firmly believe - "No hands touch production, only tools" and "Measure everything"

AWS Certified Solutions Architect and Developer with 2 years of expertise in the AWS Cloud technology, Operations, and Infrastructure.

My passion lies in helping the organizations I work for develop, deploy and migrate to AWS Cloud.

A problem solver and innovative Cloud professional, I'm always looking to challenge the norm by examining how I can improve and re-approach some of the age-old On-premise development that exists. In addition, I write Terraform and AWS CloudFormation scripts to

A few highlights of my experience: development on AWS, cloud infrastructure, cloud operations, site reliability engineering, implementing Service Level Objectives - SLO and Service Level Indicators - SLI, automating development and deployment process using Terraform and AWS CloudFormation, building CI/CD pipelines on Jenkins and AWS, worked under DevOps environment, troubleshooting and resolving production issues, and implementing Serverless applications using AWS.

@AskMe - how I am detecting, troubleshooting, and solving business critical exceptions and errors before they're visible to our customers.

Evangelizing SRE principals to engineers, developers, and non-technical teams to help achieve a cohesive ecosystem.

I write lambda functions using Java, C#, NodeJS, and Python. One of my lambda functions monitors my team's entire cloud infrastructure on Datadog.

I hold AWS Certified Solutions Architect - Associate and AWS Certified Developer - Associate certifications.

Let's talk about - Site Reliability Engineering | Serverless Architecture | Amazon Web Services | Kubernetes | Internet of Things

Experience

Cloud Software Engineer - R&D



Aspect Software

April 2018 – Present • 1 year 2 months

*Our team is 'All-In' to AWS.

Reducing AWS costs by evaluating infrastructure needs and utilizing scaling policies.

Implementing and developing Server-less applications for Aspect's multiple legacy Call center applications to the Amazon Web Services cloud by heavily using AWS Lambda, Kinesis, API Gateway, Elasticache-Redis, SQS, and SNS.

Leading Site Reliability effort for services and components by defining Service Level Objectives (SLO) and implement/monitor Service Level Indicators (SLI) for production

Partnering with senior members of the team to build software and systems to monitor, scale and deploy our distributed cloud services.

Designing & implementing infrastructure for collecting metrics, crunching data and improving service monitoring to detect problems before they're visible to our customers.

Troubleshooting, performing root cause analysis, and resolving production issues from the application and network layers all the way down to the system level. This includes anything from digging into source code hunting memory leaks, tracing bottlenecks in upstream networks, or database query optimization.

Advising and helping other development teams to define Service Level Objectives (SLO) and Service Level Indicators (SLI) for their applications, so that they're scalable, maintainable, and performing well.

Software Engineer



Machfu Inc.

September 2017 – February 2018 • 6 months

Washington D.C. Metro Area

Engineered solutions in the Industrial Internet of Things (IIoT) space for US Department of Energy (DOE) with the team of 11 Software engineers, and embedded developers under startup environment.

Developed, maintained, and deployed various Plugins software's for IntelliJ, Eclipse, and Android Studio platforms using Java, Swing, Android, and Amazon Web Services using Agile methodology.

Analyzed business requirements, prepared Software Design and Software Requirement documents to simplify the development process.

Software Engineer

Digital Factory, Inc.

October 2016 – September 2017 • 1 year

Greater Chicago Area

Worked as a part-time software engineer in a team of 09 including developers, UI/UX designer, and Data Scientists to develop the company's first Geo fence technology applications.

Helped to create a Geo Fence library and an Android app to collect customer-oriented information and behavior based on their activities.

Developed and maintained JSP, and Servlet framework-based web applications and hosted solutions on Amazon Web Services - AWS.

**DePaul University College of Computing and Digital Media**

1 year 4 months

Graduate Teaching Assistant

March 2017 – June 2017 • 4 months

Greater Chicago Area

Taught C++, Java, JavaScript, and Database technologies to more than ~200 students at both graduate and undergraduate level.

Helped and provided guidance to students with their weekly assignments and projects.

Graduate Assistant

March 2016 – March 2017 • 1 year 1 month

Greater Chicago Area

Assisted Professor to organize course forums and clarify doubts.

Prepared and graded assignments, quizzes questions.

Prepared assignment solutions.

**Student Web Application Developer**

DePaul University

March 2016 – October 2016 • 8 months

Greater Chicago Area

- Technology landscape: ASP.NET, C#.NET, Amazon Web Services - AWS, Angular.js, Node.js, JavaScript.
- Worked with a team of 16 senior developers through complete software development lifecycle.
- Used AWS Elastic Beanstalk service which deploys and scales University's web applications and services automatically and improved the scalability and performance up-to 70%-80%.
- Collaborated closely with team members to plan, design and develop robust solutions.
- Developed maintainable and extensible functionality in a team environment.
- Updated front-end design and functionality of main ASP.NET web applications under Iterative and Test Driven Development.
- Provided user requirements analysis, design and programming support for enhancement of Web application accessed by more than 20 thousand university users worldwide.
- Refactor code with new designs in ASP.NET, HTML5, CSS3, JavaScript, jQuery and C#.

June 2016 – August 2016 • 3 months
Northbrook, IL

Used AWS IOT to develop a connected home monitoring application which provided home owners with connected home experience.

Worked directly under Director to implement functionality to prevent disasters like flooding or fire by notifying home owners in timely manner.

Wrote code in native C to handle and pull data in JSON format from the Sensors using Raspberry PI and Arduino board

Education



DePaul University

Master's degree

2015 – 2017



Gujarat University

Bachelor's degree

2011 – 2015

Skills & Endorsements

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Certifications



AWS Certified Developer - Associate

Amazon Web Services (AWS), License 7JZVD0D1BNV1QR3Y

April 2018 – April 2020



AWS Certified Solutions Architect - Associate

Amazon Web Services, License QWLF1BTKBBFQ1QWN

March 2018 – March 2020

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UX Design Architect



Krishna Gandhi

Database Administrator at Cleveland Metroparks



Gunjan Pandya

Data Engineer at Facebook



Shraddha Shah

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