Amit Mondal

Cloud Engineer

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Summary

Skilled software engineer with a demonstrated skill set in process improvement, data analysis, and automation for distributed infrastructure systems. I am driven by my passion to streamline processes and design creative solutions for challenging problems. I am looking for a position where I can utilize my strong software development and scripting skills in the Cloud, Infrastructure Engineering, or DevOps space.

Work experience

Senior Software Engineer I   2024-06 - 2024-12

Phase, Taipei, Taiwan

- Development and maintenance of GitLab CI/CD pipelines across all application environments and supplementary codebases.
- Implementation and management of AWS, Cloudflare, and ArgoCD infrastructure using Terraform and Terragrunt in multiple environments.
- Monitoring and deployment of Kubernetes-based application services, including configuring additional monitoring infrastructure with Grafana.
- Administration of AWS infrastructure through the console, covering services such as IAM, RDS, EKS, Elasticache, among others.
- Coordination with cross-functional teams leveraging collaboration tools like JIRA and Slack to facilitate seamless communication.
- Introduction of an automated backup strategy for AWS infrastructure to ensure data integrity where none previously existed.

Lead Infrastructure Engineer / Cloud Engineer II   2020-11 - 2023-09

Truist, Atlanta, US

United States

- Cloud Engineering and Virtual Networking on AWS using VPCs, Route53, and Transit Gateway.
- Familiarity with hybrid cloud deployments using both on-premise and cloud resources with products like AWS Direct Connect, AWS VPN, and Transit Gateway.
- IaC (Infrastructure as Code) using Terraform and CloudFormation on AWS
- Developing flexible custom modules in Terraform for constantly evolving business and technological needs.
- Building internal tools for multiple stakeholders with differing requirements with self-service as the main priority, that integrate with other tools in the enterprise such as ServiceNow or SharePoint.
- **Reduced new tenant configuration time from 3 weeks to 3 days with an end-to-end automation that integrates SharePoint and ServiceNow with a custom-built Terraform generation script.**
- Big Data Analytics and Data Visualization using Python with AWS products: S3, Glue, Athena, and QuickSight. Aligning business segments to meet governance needs with visualized insights gathered from data via AWS Config, Organizations, and Trusted Advisor and presented via QuickSight.
- Constructed a new logging infrastructure using CloudWatch and CloudTrail for all AWS applications in the enterprise that also feeds into Splunk for further analysis.

Cloud Engineer   2020-05 - 2020-11

Truist, Atlanta, US

- Served as a Cloud Engineer at Truist, contributing to the successful implementation and management of cloud-based infrastructure.
- Collaborated with cross-functional teams to design and deploy scalable and secure cloud solutions.
- Implemented best practices for cloud architecture, ensuring optimal performance and reliability.
- Managed cloud resources and monitored system performance to proactively identify and resolve issues.
- Developed and maintained automation scripts to streamline cloud operations and improve efficiency.
- Conducted regular security assessments and implemented necessary measures to protect cloud infrastructure and data.
- Provided technical support and troubleshooting for cloud-related issues, ensuring minimal downtime and disruption.

- Stayed updated with the latest trends and advancements in cloud technology, contributing to continuous improvement and innovation.

Software Developer/Business Analyst

2019-07 - 2020-05

Truist, Atlanta, US

- Played a dual role as a Software Developer and Business Analyst at Truist, contributing to the successful implementation of software solutions.
- Collaborated with cross-functional teams to gather and analyze business requirements, ensuring alignment with project objectives.
- Developed and maintained high-quality software applications, adhering to coding standards and best practices.
- Conducted thorough testing and debugging of software to ensure functionality and reliability.
- Assisted in the design and implementation of database structures, optimizing data storage and retrieval processes.
- Provided technical support and troubleshooting for software applications, ensuring smooth operation and user satisfaction.
- Actively participated in team meetings and discussions, contributing valuable insights and suggestions for process improvement.
- Demonstrated strong problem-solving skills and attention to detail in all aspects of software development and analysis.

Patch Governance Lead (Software Engineering/Systems Analysis); Automation & Integrations Team

2018-07 - 2019-07

SunTrust, Atlanta, US

Utilizing software tools and programming skill to perform forensic investigation
into existing databases of information - finding gaps and identifying fixes, driving full accountability and audit-readiness of data;
creating automations and live reporting dashboards utilizing front-end and back-end technologies
in the form of easy to access web applications through the following methods:
SQL view functions that aggregate and normalize data output from a plethora of enterprise tools, data APIs through C# and Python, Active Directory
authentication, fully customized Splunk dashboards, custom JavaScript
based user experiences utilizing vanilla JS and frameworks in concert, to increase efficiency across the organization, and meet larger organizational
needs by providing a method to generate an overall set of KPI/KRI metrics, and clear actionable items to grow those metrics, as well as
groomed, clean data backing these metrics. I provide insight to the organization about vulnerability and patch management through my lens. In addition, I do system
administration work as part of my projects, both in SQL database instances and on linux/windows servers. I also train teammates on best practices in software development, including Git best practices, how to properly use
Kanban, debugging JavaScript, SQL debugging, and much more. It's a space where being able to quickly learn new technologies and tools shines.

Jr. Front-End Developer

2017-02 - 2017-09

Telo USA, Atlanta, US

Full-stack responsibilities! From DevOps on AWS (health checking, configuration management, deployments to new instances, log exploration for debugging, etc.) to writing/fixing SQL and resolving issues with Postgres in production. In the middle, I deal with various ORMs in Python for any
microservices interfaced with Postgres or other data sources, to the web
application layer in Django/Flask, where I'm flexing my knowledge of HTTP.
At the front, I'm writing Angular 1.x / jQuery / Vanilla JS, using Bootstrap (and sometimes deferring to flexbox when the grid fails) in certain scenarios, and managing our templates. I also handle the build process for our JavaScript
applications, preferring Gulp as a task runner and Bower for package
management, when needed.

Software Engineer

2016-07 - 2016-08

U3Dspace (優三第), Taipei, TW

Designing a way to test a real-time communications layer based on WebRTC.
Most of my time is spent creating internal tools for load/stress testing and benchmarking our clusters of media servers, websockets, RTC endpoints, etc.

Software Development Intern

2015-05 - 2015-08

Vertafore, Atlanta, US

Worked with a senior software engineer and a fellow intern on an Angular
application that can view and annotate PDF/image files within a browser, and share/edit documents in real-time over a network similar to Google
Drive. Developed several features (and bugs) on my own and through pair
programming.

- Worked with UI, QA, and management teams to architect and decide what new features would go into the application. Led our daily standup meetings for

2 weeks during my internship. Work was tracked with LeanKit.

- Helped develop and fix end-to-end tests for the application across Chrome,

Firefox, and IE using Protractor. Learned how to use promises, CSS selectors, and how to refactor out of callback hell.

- Created a RESTful service in Node for a large pipe of sensitive customer info

from Hadoop and HBase, for use by other engineers internally. Built it myself in
3 days using open-ended requirements from senior engineers.

Intern   2013-05 - 2013-08

digbil

Successfully re-factored and re-documented convoluted JavaScript code for the deployment and scheduling of media files sourced from AWS to an HTML5
container with the team. Saved our main software engineers many days worth
of time by doing this task for them.

- Developed a web servlet in PHP for redirection and gathering mobile analytics data via QR code that was used on a production billboard thousands

of times with the team.

- Utilized several front-end web technologies to create animated menus for our

client. These were used to show the difference in modularity, performance, and visual quality over traditional video-based menu systems used in their
restaurants. My boards were deployed in several restaurants in Taiwan, including one in Taoyuan international airport. My work resulted in the client
taking digbil as its solutions provider.

Certifications

- ServiceNow Certified System Administrator
- AWS Solutions Architect Associate

Skills

Bash	10	Pandas	10	Python	10

Terraform	9	ServiceNow Development	10	Amazon Web Services	10

API Integration	9	Powershell	7	Project Management: Scrum	6