DIPEN CHOVATIYA

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Professional Summary

A soaring software developer, who thrives to solve complex business challenges through innovative and cutting-edge technologies. A personable, communicative developer with ample of coding experience in programming languages like Java, Python, and HTML along with framework like Spring boot. Enthusiastic to explore the horizons of Machine Learning and Cloud Computing.

Professional Skills

- **Cloud Computing**
- **System Architecture and Security**
- **Data Analysis**
- **Technical Troubleshooting and Debugging**
- **Cross-functional Team Communication**
- **Automation and Scripting**

Professional Experience

Java Developer, *The Vanguard Group*

October 2019 – Present

- Deployed multiple web APIs with Spring Boot and Python on AWS ECS and Lambda while maintaining 100% code and mutation coverage through J-Unit, Integration, PACT, Security, and E2E testing.
- Collaborated with an agile team of Scrum Master, BA, and PO and actively participated in the inter-team collaborations to standardize the code implementation of business requirements to avoid ambiguities at a later stage.
- Multiple times awarded with the Star of the Sprint for helping the team meet the sprint deliverables and automatizing the daily tasks through tools and scripts to improve the work efficiency.
- Co-hosted a weekly Technical Forum for the entire division to discuss any technical developments and technology upgrades in the company. Providing an open platform for teams to collaborate on technical challenges and enlightening software developers on the best practices.
- Managed a team of 4 Site Reliability Engineers to provide 24/7 production support for 5 clients facing APIs.
- While functioning as SRE, identified, and implemented 8 different solutions to improve the performance, cost, and availability of the web app. Resolved over 25 major bugs and defects, increasing the stability and resiliency of the APIs.
- Optimizing and validating the performance of REST APIs through load and performance testing. Monitoring the health and availability of web services and design and validate the disaster recovery plan.
- Implemented an AWS storage gateway agent and a fileshare instance to allow an app development team to access S3 from on-prem machines. Designed a robust and secured network architecture to encrypt the data in transit and at rest with AWS KMS key. A storage gateway is used by over 6 different applications in production.
- Successfully ran data analysis on ECS logs to design and create an interactive ECS Request Debugger dashboard in Splunk to track down the infrastructure or web service failure. Supports as a primary diagnosing tool for over 15 teams.
- Participated in a Hackathon to implement a proactive monitoring of the web service performance during high market activities such as election day. Designed and developed synthetic test traffic using AWS lambda, Secrets Manager, and SQS and validated the availability and correctness of the API responses provided to the clients.
- Created a proof of concept by decreasing the number of logs generated by 50% through optimizing the logging framework. Projected to save over $1.4 million annually for storing and retrieving the redundant logs.

Software Engineering Intern, *Velocity Capital Group*

August 2019 – September 2019

- Developed a stand-alone Python-based application to generate consolidated offer-letter for customers using several internal documents.
- Integrated the APIs with existing CRM website to automate the task of fetching background check, credit score and criminal history of customers, saving ample of data processing time for underwriters.
- Ran data analysis on bank statements of customers and companies to visualize their finances and auto filter out the unwanted applications from further internal processing.

Information Technology Consultant, *University at Buffalo* August 2018 – May 2019

- Fixed projectors, provide access to campus systems, debugged web applications, and kept university IT running. Provided workstation and networking support to 15,000 end-users every day.
- Worked with an independent team on a campaign to help students migrate to a new consolidated IT system, including a presentation of new resources to the campus.
- Consulted with the management team to help design a new point-based system to track the performance of the employees.

Software Engineering Consultant, *Krish Creation* October 2017 – January 2018

- While in college, consulted with a small textile factory to improve company's invoice process.
- Moved the company from handwritten invoicing and inventory to an automated order tracking system.
- Designed ETL system with a robust data pipeline, data quality ensured through readable code and diligent deduplication. UI created through conversation with the users, using AWT.
- Project decreased the total amount of bookkeeping by 50% and freed a full-time employee from performing the work manually.

Education

State University of New York, Buffalo, NY August 2016 – May 2019

Bachelor of Arts, Computational Mathematics

Software Development Projects

Personal Website on AWS October 2020 – Present

- Created a portfolio website using HTML, CSS and JavaScript to showcase the different project and life events.
- Architected and implemented a CI/CD pipeline using Github and AWS CodeDeploy to standardize the process for quickly elevating the updates to website.
- Defined secured DNS routing configurations to map domain to dipenchovatiya.com. Created AWS CloudWatch Alarms to monitor the website availability.
- Designed a cost effective and scalable AWS architecture using Auto Scaling Groups and Elastic Load Balancer.

Track the Shuttle November 2018 - December 2018

- Designed an Android application to track university shuttle routes in real time and provide notifications for students.
- Application uses robust Firebase fallback if university API is offline, and displays the route using Google Maps.
- Gained widespread adoption among my social circle, saving ample of time for 80 users.

Gooseberry Leaves Image Classification October 2018 – November 2018

- Designed a Convolutional Neural Network which uses Rectified Linear Unit and Max-pooling to determine the true classification of the image.
- Classified leaves based on 5000 images provided through an online form with a, achieving accuracy of 96%.
- Attained the accuracy of 98% in MNIST handwriting database.

Other Relevant Information

Programming Languages and Frameworks: Python, Java, C++, MySQL, HTML, CSS, Spring Boot, Django, Bootstrap, Tensorflow, Pandas

Other Tools: Jmeter, JProfiler, HoneyComb, Opentelemetry, Splunk, AppDynamics, BitBucket, Confluence, Jira, Postman, Android Studio, Anaconda Navigator, Swagger, Bamboo, Xcode