VIVEK BHAT

vivek.bhat@intel.com| github.com/VivekBhat |linkedin.com/in/vivek-bhat |+1-919-945-6947
http://vivekbhat.me

FULL STACK SOFTWARE DEVELOPMENT ENGINEER

Talented Software Engineer with experience designing, developing and deploying AI (Artificial Intelligence) solutions for clients in multiple industries. Demonstrated design and delivery of end to end complex AI solutions to clients in the Cloud. Collaborative communicator adept at working with internal and external cross-functional teams to drive initiatives. Certified AWS Solution Architect

AREAS OF EXPERTISE

Software Development	Artificial Intelligence	Cloud Solutions
Requirements Gathering	Angular 8	REST APIs
Agile/DevOps	Python Flask	CI/CD

CORE TECHNICAL COMPETENCIES

PROGRAMMING	TypeScript, Angular 8, Java, JavaScript, Scala, Ansible, Bash, Python, Flask, NodeJS, Knockout.js, RUBY, Ruby on Rails, HTML5, CSS, Bootstrap, XML, JSON, C, C++, JUnit, Selenium, Mocking
DATABASES	MySQL, MariaDB, AWS Aurora DB, DynamoDB, Redis, Memcache, Postgres SQL
TOOLS & UTILITIES	AWS, Teamcity, Rally, GitLab, Terraform, JIRA, Docker, Kubernetes, Vagrant, Elasticsearch, Logstash, Kibana, Git, Maven
OPERATING SYSTEMS	OS X El Sierra, Windows, Ubuntu, CentOS, Kali, Mint, Zorin

EXPERIENCE

INTEL - Hillsboro, Oregon **October 2018 - present**

Software Development Engineer, Corporate Data Office

Working in a fast-paced agile team at Intel to productize, develop and deliver multiple projects for Machine Learning and Artificial Intelligence

Project: Retail Promotion Analytics (RPA)

Full Stack Development

- Owner of the Angular 8 based user interface of the project.
- Understand customer needs, plan requirements and implement the changes in a weeklong sprint
- Mentored and lead a team of interns, contract workers and full-time employees to deliver the product before time even though the scope was increased by 25%

Infrastructure Development

- Used technologies such as AWS API Gateway, Cognito and Lambda to expose our Flask App docker image stored in AWS ECR and app in AWS ECS Fargate and ALB
- Implement services like AWS Lambda and CloudWatch reducing costs by 70%.
- Developed the User and Authentication flow in the Angular JS based application integrated with AWS Cognito
- Authenticated the rest calls to API Gateway backend from the front end

Project: Central Data Repository

Data Ingestion and Pega Development

- Developed the Mailing mechanism in Scala to send email notification when any process fails and handle exceptions gracefully
- Fixed the Kerberos ticketing issue which was not letting the application be fully automated.
- Successfully released multiple new Rule Set Versions which had significant updates to the PEGA workflow and integrated the data ingestion changes to the new rule set.

INTEL - Raleigh, NC **Jan - October 2018**

Software Architect/Software Development Engineer, Intel Saffron Professional Services

Worked as a part of the Professional Services team that developed and delivered AI solutions to multiple clients.

Software Development

- Developed API's in Java and Python to facilitate AI product REST querying and processing, enabling concurrency and faster results in client environments.
- Successfully completed AI projects in client environments using various algorithms in conjunction with the AI product, adept at rapid prototyping for fast turnaround times in POC's (Proof of Concept) and very well versed in interfacing with Clients.
- Delivered end to end client projects (POC's) integrating Data Science techniques under tight time lines.

Cloud Infrastructure Solutions (AWS Certified Solutions Architect)

- Create highly available, redundant and fault tolerant clusters on AWS for Intel Saffron customers.
- Designed and implemented a highly available AWS architecture to migrate our conventional sales and demo servers to a centralized AWS infrastructure resulting in a 60% cost reduction.

Product Development Projects

- **Intel Saffron one-click Installer.**
  Completely automated the process of conventional Saffron installation by creating a pipeline using Ansible, Docker, Docker Swarm and Bash scripting which reduced the installation time by 50% and removed any margin of human error.
- **Centralized Logging with Elastic stack, Project Owner.**
  Developed the new logging mechanism to visualize logs for SMB using Elastic stack to monitor and get logs from worker nodes
  Removed the NFS mounting of log directories to achieve a centralized logging system which in turn reduced network latency by 50%.

SDE Intern, Professional Services, 2017 (6 months)

As an intern built the Intel Saffron Java REST API from the ground up including the design and development of the AI's Java REST tool encapsulating unique security protocols and complex API classification and recommendation, leveraging AI product and reducing the time to POC's.

- The tool enabled 10x faster API calls and space creation and provided simpler and easy to use rest API calls for the client user.

EDUCATION

Master of Science in Computer Science - North Carolina State University**,** Raleigh, NC

Bachelor of Technology - Jamia Millia University**,** New Delhi, India

ADDITIONAL ACAMEDIC PROJECTS

Kubernetes-deployment, uses Kubernetes, docker, AWS, Vagrant (git.io/fNOKh)

Created a 3-node cluster using Vagrant and AWS to deploy a multi-tiered microservices based application using Kubernetes and performed rolling updates of the updated docker images.

Serverless Repos, uses AWS-S3, Route53, API Gateway, Lambda (git.io/fNlul)

Collection of various AWS Lambda serverless deployments like serverless REST APIs, S3 events, EC2 management.

LEADERSHIP AND VOLUNTEER SERVICE

Project Lead for a new feature in an AI product development at Intel

President of IEEE JMI Student Branch and IEEE JMI Computer Society (2015-2016).

Dr J. K. Pal Memorial Award for the IEEE Best Student member 2016 from IEEE Delhi Section