AMEYA VINAY APTE

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EDUCATION

Master of Science in Information Systems, *Northeastern University**, Boston, MA*   *Aug 2024*
Courses: Networking & Cloud Computing, Big Data & Intelligence Analytics, UI/UX & Testing, Design Pattern, Data Structures & Algorithms

Bachelor of Technology in Electronics and Telecommunication, *Veermata Jijabai Technological Institute (VJTI), India*   *May 2021*
Courses: Object Oriented Design, Operating Systems, Blockchain, Computer Science, Statistics, Embedded Systems, Robotics, Computer Vision

CERTIFICATION

AWS Certified Solutions Architect Associate | Amazon Web Services   *Mar 2024*

TECHNICAL SKILLS

Programming Languages	Java, Python, Shell, C#, HTML, CSS, JavaScript, TypeScript, GraphQL, SQL
Web Frameworks and Other	Spring Boot, React.js, REST, .NET, Flask, Maven, Junit, Pytest, Jest, Nginx, Gunicorn, Figma
Databases	PostgreSQL, DynamoDB, Redis, MySQL, MS SQL Server, MongoDB
Software/Tools	Docker, Kubernetes, ECS, Git, Jenkins, Prometheus, Grafana, Kafka, Datadog, ELK, Helm, ArgoCD
Cloud	AWS, Azure, GCP, CI/CD, Packer, Terraform, Linux, Unix, Ansible
Big Data Engineering	Airflow, Snowflake, dbt, Pinecone, FastAPI, Streamlit, Pydantic, Selenium, S3, Beautiful Soup, Spark
ML/AI	R, MATLAB, NumPy, Pandas, SciPy, OpenCV, Scikit-learn, TensorFlow, Tableau, RAG, Power BI

WORK EXPERIENCE

DevOps & Data Science Teaching Assistant, *Northeastern University**, Boston, MA*   *Jan 2024 – Jun 2024*
- Helped 15+ students to containerize & orchestrate .NET, Spring Boot, Flask, Golang apps & create 10+ Kubernetes manifest files
- Developed POC labs for multi-cloud NLP app using AKS & EKS clusters and monitoring dashboards using Grafana & Prometheus
- Designed case study assignments on GraphQL, Kafka, Ansible, Splunk, Jenkins, Datadog, ELK, ArgoCD, Spark, & Statistical Modeling

Cloud Engineer Co-op, *PipeIQ, Palo Alto, CA*   *Sept 2023 – Dec 2023*
- Led cross functional team to migrate 15+ AWS Lambda's to scalable microservices for supporting multi-tenancy and RBAC
- Leveraged Next.js to develop full stack product features and improved the customer engagement & sales by 65%
- Used Cognito User Pools for improving system security by 50% & worked on deploying LLM-powered application to production

Software Engineer – Financial Services, *PricewaterhouseCoopers, Mumbai, India*   *Jul 2021 – Jul 2022*
DevOps / Site Reliability Engineering (Insurance Industry):
- Led the development of 30+ RESTful API's using Spring Boot and DynamoDB as a part of on-premise to cloud API migration
- Delivered 20+ microservices using full software development life cycle (SDLC), agile methodology and Jenkins for CI/CD
- Improved the modularity, scalability & observability of endpoints by 80% using distributed modules and CloudWatch Metrics
- Devised business rules using Spring EL for 15+ insurance products currently in use by over 2 million customers
- Performed strategy planning and timeline management leading to an 18% increase in overall revenue
Data Engineering (Private Bank), PwC Netherlands:
- Performed ETL and built data pipelines to integrate core banking and CRM systems thereby improving system efficiency by 85%
- Managed technical documentation such as system documentation, training materials, processes and procedures

Business Analyst Intern – Data Analytics, *Wellness Forever Medicare Pvt. Ltd.**,* Mumbai, India   *May 2020 – Jul 2020*
- Conducted end-to-end testing for hyperlocal delivery model to improve 'Perfect Order Percentage' by 80%
- Executed data-driven client acquisition initiatives, achieving a 20% reduction in reconciliation cycle time

PROJECTS

Kubernetes Sentiment Analysis| EKS, AKS, Flask, Bastion Host (Spring Boot), React, Nginx, Terraform, Docker, Prometheus, Grafana
- Crafted a multi-cluster webapp and implemented container orchestration, and telemetry to enable NLP using TextBlob at scale

ECS Webapp | ECS, ECR, CodeBuild, Terraform, React, MongoDB, Flask, Gunicorn, Docker, CI/CD
- Architected and deployed a scalable Twitter clone using ECS, with CodeBuild CI/CD pipeline, Terraform IaC and public ECR repository

Model as a Service (RAG in Production) | FastAPI, Streamlit, Snowflake, Airflow, Docker, GCP, RAG, Pinecone, Gemini, Hugging Face
- Developed a user-friendly interface for meal planning, calorie tracking & meal suggestions with data visualization capabilities

Data as a Service (Financial Knowledge Base) | Python, dbt cloud, Snowflake, pytest, Selenium, Pydantic, Beautiful Soup, S3
- Built a data engineering solution that performs extraction, validation, & loading of data from PDF's & website into Snowflake

Cloud-Native Inventory Management | Java, Spring Boot, MySQL, AWS, Terraform, Packer, CI/CD, DNS, IaC, ORM (Hibernate)
- Orchestrated GitHub Actions CI/ CD pipeline with Packer-based custom AMI creation and application deployment
- Implemented infrastructure automation with Terraform to provision EC2, VPC, RDS, S3, load balancer (ELB) & Launch Templates