Akhil Gandhi

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EDUCATION

University of Colorado Boulder — August 2022 - May 2024
Master of Science in Computer Science — **GPA: 3.80/4.0**
Courses: Big Data Architecture, Natural Language Processing(NLP), Data-centre Scale Computing,
Foundation of Software Engineering, Data Mining, High-Performance Computing, Design Analysis Of Algorithms

Pune Institute of Computer Technology — August 2017 - June 2021
Bachelor of Engineering - Computer Engineering — **GPA: 3.91/4.0**

SKILLS

Languages: Python, Java, C/C++, JavaScript, Golang, Bash, TypeScript, YAML.
Frameworks: Flask, Django, Vue, Quasar, Nuxt, React, Next, SpringBoot.
Cloud Services: AWS (Lambda, DynamoDB, API Gateway, EC2, S3, VPC, CDN), GCP.
Database: MySQL, PostgreSQL, SQLite, Redis.
Tools & Tech: Git, Docker, Kubernetes, Helm, Jenkins, Ansible, JSON, Agile Methodologies, Tomcat, GitHub Actions, Grafana, Gunicorn, Kafka, gRPC, GraphQL, REST, Postman, DataDog.

EXPERIENCE

Software Developer Intern | Rule4 (Boulder, CO) — August 2023 - April 2024
- Integrated Vue.js into the existing Django application, enabling client-side rendering and significantly enhancing the application responsiveness and user experience.
- Developed a backend service in Go to aggregate chat data from Slack and meeting details from Google Calendar. Implemented Kafka for efficient message streaming, reducing server load by 30% and ensuring real-time data processing.
- Improved efficiency of time entry for the consultancy by suggesting timesheet entries based on aggregated data from Slack and Google Calendar, leading to more accurate billing and streamlined employee workflows.

NetOps Engineer Intern | Charter Communications (Greenwood Village, CO) — June 2023 - August 2023
- Automated Datadog alert configurations using shell and Python scripts, seamlessly integrating with CI/CD pipelines to reduce downtime by 15%.
- Designed and orchestrated a comprehensive CI/CD workflow for machine provisioning, including the installation and configuration of observability tools.
- Managed Kubernetes cluster deployments for a streaming service, ensuring optimal performance, high availability, and scalability to support a growing user base.

Associate Software Developer | NICE Systems (Pune, India) — July 2021 - July 2022
- Migrated Actimize platform code-base from Angular to Vue, resulting in Single Page Application with 30% reduction in loading time.
- Fixed production defects, conducted thorough code reviews, and achieved 90% code coverage with Jest, resulting in efficient refactoring and fewer bugs in production.
- Managed development, unit testing, and documentation for in-house UI library built with Quasar, ensuring consistent UI/UX across products.
- Containerized Java(Gradle, Maven) and Python codebases, combined Kafka topics, and deployed on Kubernetes cluster using Helm charts. Conducted Vue training with 50+ attendees, equipping team with essential skills for ongoing product development.

PROJECTS

Amazon Price Tracker (Software Development/Full Stack) — January 2023 - May 2023
- Developed price tracker using Vue.js SPA, integrating Grafana and Prometheus for real-time monitoring and automating email notifications with SMTP and cron expressions.
- Implemented CI/CD pipelines with GitHub Actions, enhancing frontend deployment efficiency and security by utilizing Firebase authentication and AWS S3 for asset storage.
- Applied rigorous frontend testing, incorporating acceptance tests and integration tests to ensure seamless user experience and high reliability.

Budget Based Activity Recommendation and Trip Planner (Frontend, Deployment) — January 2023 - April 2023
- Engineered an SPA using Vue.js, integrating with services like AWS S3, Weather API, and Google Maps API. Implemented user-based tailored activity suggestions, itinerary planning, and real-time trip-related metrics.
- Established Flask-based RESTful APIs on Linux-based EC2 with Redis caching, employing application load balancer and auto scaling group. Deployed with a CI/CD pipeline via GitHub Actions, cutting deployment times by 25%.

CERTIFICATIONS

- **AWS Certified Developer – Associate** — September 2023
- **Google Cloud Fundamentals: Core Infrastructure** — May 2020

HONORS AND AWARDS

AWS JAM Hackathon - Ranked in top 6 for showcasing proficiency with AWS technologies. — March 2024
Impetus and Concepts - Earned silver medal at state-level technical competition. — May 2021