Kunal Dilip Mansukhani

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Education

- **Santa Clara University** — Santa Clara, CA
  Masters of Science in Computer Science and Engineering — *Sept 2022 - June 2024*
  Coursework: *Cloud Computing, Advance Operating Systems, Design and Analysis of Algorithms, Distributed Systems*
- **University of Mumbai** — Mumbai, India
  Bachelor of Engineering in Information Technology — *June 2014 - June 2018*
  Coursework: *Data Structures and Algorithms, Operating Systems, Object Oriented Programming, Big Data Analytics, Advanced Database Management System.*

Skills Summary

- **Languages**: Python, Java, Dart, Bash, SQL
- **Devops Tools**: Docker, Kubernetes, Jenkins, Terraform, Helm, Maven
- **Monitoring Tools**: Prometheus, Grafana, ELK (Elasticsearch, Logstash, Kibana)
- **Cloud Technology**: AWS - Amazon EC2, S3, RDS, ELB, EBS, Auto scaling, Lambda
- **Other Technologies**: Django, Flask, REST API, Git, JIRA

Experience

- **Cerebrone.ai** — Santa Clara, CA
  Cloud Security Intern (Full-time) — *June 2023 - Present*
  - **CI/CD Automation**: Developed and maintained fully automated CI/CD pipelines using **Jenkins**, resulting in streamlined development processes and error-free code deployments.
  - **Cloud Infrastructure Management**: Actively managed and monitored **AWS** infrastructure, including **EC2**, **S3**, and **RDS**, ensuring backups, patches, and scaling for high-performance and secure operations.
  - **Containerization and Deployment**: Implemented **Docker** containerization practices and orchestrated **Kubernetes** application deployments, resulting in significantly enhanced deployment efficiency.
- **Atos Syntel** — Mumbai, India
  Software Developer — *Aug 2018 - Jan 2022*
  - Created an app that connected to the **FileZilla API** and logged errors for more than a million files daily, resulting in reducing manual efforts by **20%**.
  - Implemented a module to fetch user data from **Oracle SQL** server to be rendered to the customer checking UI, substantially eliminating support teams' assistance.
  - Automated mail campaigns and cronjobs to execute more than 300 billing scripts daily, shortening the time used for manual checks during deployments by **50%**.
  - Analyzed and fixed issues on more than 120 engines on **Linux servers** by identifying root causes and finding corresponding fixes.
  - Created **Python** scripts to execute scheduled jobs on more than 15 servers, reducing efforts taken by support teams and yielding a **40%** increase in efficiency.
  - Implemented a Customer Details API that enabled Customer Care to get details for any customer data stored in our database.

Projects

- **Automated Document to Speech Conversion (Oct 2022)**:
  - Implemented an event-driven serverless architecture using Amazon AI services to convert scanned documents to speech.
  - Utilized Amazon Polly and Amazon Textract for document-to-audio conversion, with supporting services like Amazon **API Gateway, Lambda**, and **SNS** for communication.
- **Blog Application (June 2022)**:
  - Built a **Django**-based Blog application enabling users to perform CRUD operations on posts.
  - Implemented features such as listing blog posts on the homepage and dedicated detail pages for individual posts.
  - Created a poll feature for viewing and voting in polls, and an admin site for adding, changing, and deleting polls.
- **Santa Clara Housing Price Estimator (December 2021)**:
  - Designed and developed a user-friendly website using **Django** and **REST APIs** for estimating housing prices in Santa Clara.
  - Utilized ensemble regression models and supervised learning techniques to provide highly accurate price estimates.