

# ANKITA SINGH

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## EDUCATION

### Illinois Institute of Technology

Chicago, USA

#### Master of Science in Computer Science

Aug 2021 – May 2023

- Relevant Courses: Introduction to Algorithms, Computer Networks, Adv. Database Organization

### Savitribai Phule Pune University

Maharashtra, India

#### Bachelor of Engineering in Electronics and Telecommunications

Jun 2014 – May 2018

- Relevant Courses: Data Structures & Algorithms, Object-oriented programming, Operating Systems

## PROFESSIONAL EXPERIENCE

### National Renewable Energy Laboratory

Chicago, USA

#### Post Grad Software Engineer II

July 2023 – Present

- Built a Single Sign-On platform using Django, Python, and AWS services, resulting in a 40% reduced workload.
- Developed Python applications with efficient CI/CD pipelines for Docker, enabling rapid deployment and ensuring seamless integration of security measures.

### National Renewable Energy Laboratory

Chicago, USA

#### Computer Science Grad Intern-II (Advanced Computing Operations)

June 2022 – May 2023

- Automated Linux instance provisioning and configurations on AWS using Terraform, resulting in a 35% productivity increase, reduced provisioning time, and cost savings of \$20,000 annually.
- Enhanced security by implementing IAM roles and policies through a bash script for EC2, ECS, and ECR, preventing unauthorized access for AWS users.

### Amdocs Development Centre LLP

Pune, India

#### Software Engineer(AT&T, PLDT)

July 2018 – July 2021

- Refactored, created & documented backend APIs using Python to generate backend logs to monitor the dashboard.
- Led and validated the migration from Oracle to MySQL, collaborating closely with senior engineers to ensure a seamless transition
- Developed code Minimal Testable Value (MTV) to automate scenario generation using Decision Tree Algorithm.
- Devised and executed an automated approach for validating Unix batch jobs, leading to a 50% decrease in validation time.
- Conducted thorough testing of Java Services, XML, and RESTful APIs leveraging SoapUI, ensuring their robust performance.
- Mentored 4 new hires, providing guidance on system understanding, code-base establishment, and basic debugging methods, fostering their growth and integration into the team.

## PROJECTS

### Cloud Docker Scaling | AWS CodeBuild, ECS, Docker [\[source\]](#)

Aug 2022 – Nov 2023

Delivered scalable Docker app on AWS ECS which helped optimize costs. Implemented efficient CI/CD pipelines, showcasing expertise in Docker and cloud-native solutions.

### Big Data Customer Segmentation Analysis | Neo4j, Python, Data Analysis [\[source\]](#)

Nov 2021 – Dec 2021

Analyzed historical transaction data and RFM statistics on a large E-commerce dataset using Neo4j, resulting in a 25% increase in revenue by providing insights and suggesting personalized marketing campaigns based on customer behavior.

### Automatic Ticket Classification | EDA, Pandas, Data Visualization/Analysis, ML [\[source\]](#)

Jan 2018 – Dec 2019

Performed Exploratory Data Analysis on the internal organization's ALM test data and built a test and training model set using a decision tree algorithm, resulting in an overall accuracy of 75

## SKILLS AND EXPERTISE

**Programming Languages:** Python, Shell, Bash, R, SQL, C, C++

**Web Technologies:** HTML, CSS, JavaScript, ASP.NET

**Frameworks & Others:** Django, Docker, Kubernetes, Postman, SoapUI, Bitbucket, Terraform, MVC Architecture, Microservices, Hadoop, Spark, Rally, Jira, Confluence, MySQL, HBase, Hive, NoSQL, Microsoft SQL Server, React

**Operating Systems:** Linux, Unix, Windows, Android

**Technologies, IDE & Version Control:** RESTAPI, Selenium, Postman, Docker, git, IntelliJ, VisualStudio Code, Kafka

**Cloud:** GCP, AWS (EC2, EMR, ECS, ECR, S3, CloudWatch)

**Certifications:** HashiCorp Certified Terraform Associate, Introduction to Containers and Docker, Python: Zero to Master, AWS: Cloud Practitioner

## PUBLICATIONS

- Data transmission through visible light is featured in the *International Journal of Innovations in Engineering Research and Technology*, Volume 5, Issue 5, with ISSN 2394-3696. (LI-FI Technology)