

# VIVEK KUMAR MISHRA

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## EDUCATION:

**California State University | Long Beach, CA**

**Aug 2021**

Master of Science in Computer Science

**West Bengal University of Technology | Kolkata, India**

**June 2014**

Bachelor of Technology in Information Technology

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## TECHNICAL SKILLS:

<b>Programming Languages</b>	Python, Shell Script, Ansible, Docker, Java, Go, Terraform, JavaScript
<b>Operating System</b>	Windows, Linux, Unix, Macintosh
<b>Technical Tools</b>	Jira, bitbucket, CI/CD, Agile, Jmeter, Blazemeter, Dynatrace, Grafana
<b>Database</b>	Oracle and Cassandra
<b>Cloud</b>	OCI(Storage), AWS(CLF-C01 certified)
<b>Certification</b>	AWS(CLF-C01 certified), AWS Certified Developer(DVA-C02)

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## PROFESSIONAL EXPERIENCE

**JP Morgan & Chase Co | Wilmington, Delaware**

Associate Software Engineer| Java, Cassandra, Kubernetes, Kafka, Python, Terraform

**October 2021 to**

**Present**

- Working as backend development engineer designing and developing APIs for project which shows offers to customer on webpage and mobile app using Java, Cassandra, Kubernetes.
- Knowledge of DevOps tools (Jenkins, Docker, Git, Ansible etc.). Worked on CI/CD pipeline and development of application using Kafka.
- Worked on unit testing using Junit and Mockito and increased code coverage from 17% to 77%.
- Improved response time of application from approximately 53 ms to 30 ms by optimizing the whole flow.
- Implemented light switch in cloud environment which saved around \$10000 every month.
- Expertise in unit testing and problem-solving abilities in Dev, QA/UAT and Production environments.
- Also, worked on developing projects in MVC architecture and developing and consuming RESTful api.
- Experience in agile development processes using tools such as Jira, Confluence, teams, zoom, postman and source control tool like GitHub and doing code reviews.
- Experience in compute, storage and networking protocols and technologies (Load balancing, VPC, VPN)
- Experience in developing Datadog, Splunk, Grafana, Dynatrace dashboard for observability.
- Deep experience with AWS (VPC/Subnet design, EMR, IAM, WAF, ECR, ECS, EKS, RDS, Aurora)
- Deep experience with Terraform.
- Experience with containerization (ECS, Docker, and Kubernetes).
- Experience working with large data-sets and corresponding tooling (e.g. Hadoop, Cassandra, ElasticSearch or others)

**California State University | Long Beach, California**

Research Assistant | Python, Java, Block Chain

**February 2020 to August 2021**

- Working under a professor as a Research assistant and developed various python scripts for analyzing Caltrans data.

- Did research in block chain and contributed to publish articles for Mineta Transportation Institute.
- Designed front end and backend of the application using Python on Django Web Framework.
- Worked with the Stakeholders, gathered requirements and developed high level design documents.
- Used JavaScript and JSON to update a portion of a webpage.
- Worked as python developer and developed various python scripts for analyzing Caltrans data.
- Used data analysis and machine learning techniques with hands-on-experience on various python libraries like NumPy/Pandas/SciPy.
- Have used Python libraries like NumPy/SciPy, Pandas for market analysis and done some machine learning using Python.

#### **Oracle | Bangalore, India**

**July 2018 – January 2020**

*SDET and DevOps Engineer / Python, Shell script, Linux, Ansible, Docker, Java, Go*

- Worked on automation of scripts for Oracle Cloud Infrastructure using Ansible. A deep understanding of Unix/Linux system administration
- Worked on automation of testing scripts using Go, Python, and Ansible for OCI in storage domain.
- Worked on development of a testing framework using Go.
- Deep experience with Terraform/Ansible.
- Experience with containerization (Docker).
- Hands on experience in Linux and Windows systems and good understanding of distributed computing environments. Worked on infrastructure as a service (IAAS).
- Created Docker Containers leveraging existing Linux Containers and AMI's in addition to creating Docker Containers from scratch.
- Worked on storage, networking, and compute domain.
- Responsible for debugging the project monitored on JIRA (Agile).
- Hands-on experience with conversion of Python 2.x To 3.x version.
- Used bitbucket version control and deployed the project to OCI.
- Involved in identifying and resolving issues related to data processing, storage, and retrieval in OCI.
- Working on OCI storage module to run code in response to events, such as changes to data in object storage buckets.
- Actively involved in each phase of software Development life cycle (SDLC) and experience in Agile Software Methodology.
- Experienced in integrating Kubernetes with CI/CD pipelines, such as Jenkins to automate the build, test, and deployment process.

#### **Cognizant Technology Solution | Bangalore, India**

**May 2015 – July 2018**

*SDET for Gauss Database / Python, Shell script, Linux, Unix C, PostgreSQL*

- Worked on backup and recovery tool for Gauss Database which is wrapper over PostgreSQL.
- Worked on automating around five hundred test cases using shell and python scripts.
- As part of automating the CI test environment, followed all processes to setting up and daily reporting the health of the product with automated tests and Coding and debugging in Linux and Unix environment.
- Reduced the running time of CI from 4.5 hours to 2.5 hours, hence saving a total of around 500 hours of work every year.
- Hands-on experience with conversion of shell script to python.
- Hands on experience in Linux and Windows systems. Designed full CI/CD pipelines so that each commit will go through standard process of software lifecycle and gets tested well enough before it can make it to the production.
- Worked in development of applications especially in the UNIX environment and familiar with all its commands.
- Designed and configured database and back-end applications and programs.

- Performed research to explore and identify new technological platforms.
- Collaborated with internal teams to convert end user feedback into meaningful and improved solutions.
- Resolved ongoing problems and accurately documented progress of a project.

*DevOps Engineer and SDET for Google Cloud Platform / Python, Shell script, Docker, Java, Puppet*

- Puppet Module Development for Google Cloud products.
- Provided Engineering services for Team which includes.
  - Tools Development
  - Unit Testing
  - Code debugging

### **Programming Experience:**

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- Worked closely with developers using agile methodology to automate Oracle Cloud Infrastructure, GCP and Gauss database.
- Developed a website for my portfolio using HTML, CSS, FLASK, python whose link you can find on the top right corner.

### **Awards and Achievement:**

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- Won #FutureOfMeterReading contest organized by Capgemini Super Techies.
- Got global project of the year 2016 award in Cognizant Technology Solution.