Vivek Mishra

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SUMMARY

Sr. Software Engineer with extensive experience designing scalable backend systems using Java and Python. Led development of high-performance APIs that served 80 million users, improving performance by 40% and reducing costs by $100K. Demonstrated expertise in distributed systems, AWS, Kubernetes, and CI/CD pipelines, with hands-on work integrating AI dev-tools and LLMs. Proven ability to enhance productivity through robust system design and optimized service operations.

SKILLS

- **Backend Development**: Java, Python, Spring, JavaScript, React
- **Data Pipelines**: Jules, Spinnaker, Jenkins
- **Miscellaneous**: AWS, Kubernetes, JMeter, Dynatrace, Grafana, Ansible, Go, Terraform, Shell Script, NumPy, Pandas, Kafka, LLMs, Windsurf, Spring security, Cursor, GenAI
- **Frontend Development**: ReactJS, JavaScript, HTML, CSS
- **Soft Skill**: Team player, Bias for action, Deliver results
- **Interests**: Traveling, Fitness, Nutrition

EXPERIENCE

JP Morgan & chase **Oct 2021 - Present**
Software Developer *Wilmington, DE*

- •Directed a team of 3 developers to deploy six scalable APIs using Java, DynamoDB, and Kubernetes, supporting high availability for 80million customers and aligning with distributed systems principles.
- Engineered a cloud-based light switch solution that lowered operational costs by $100,000.
- Optimized application performance, reducing response time by 40% through refined backend microservices and system design improvements.
- Integrated software solutions involving LLMs and ML models to enhance AI-assisted development workflows.
- Developed and consumed RESTful APIs within an MVC architecture, ensuring robust data integration and service interaction.
- Utilized AWS (VPC, DynamoDB, IAM, SQS, ECS, S3), Terraform, and Docker to build reliable, cloud-native services.
- Implemented a CI/CD pipeline using Jenkins, Docker, Bitbucket, and Spinnaker to enhance developer experience and streamline deployments.
- Constructed observability dashboards with Datadog, Splunk, and Dynatrace to monitor system health and performance.
- Enhanced automated testing and quality assurance by improving code coverage from 17% to 97% with JUnit and Mockito.
- Leveraged frontend technologies including React, JavaScript, CSS, and HTML to complement backend service integration when necessary.
- Integrated Kafka for real-time data streaming, enabling event-driven architecture that improved system scalability and responsiveness.
- Applied OAuth 2.0, OIDC, SAML, and JWT for secure API authentication and authorization.
- Implemented Spring Security to reinforce robust access control for services and APIs.
- Utilized Windsurf to develop efficient, high-quality code and maintain coding standards.

California State University **Mar 2020 - Aug 2021**
Research Assistant *Long Beach, CA*

- Collaborated with a professor to analyze Caltrans data, focusing on Intelligent Transport Systems using NumPy, Pandas, and TensorFlow to support data-driven insights.
- Developed a mobile app employing OpenCV and NLP to address complex geometric problems.
- Authored research papers for the Mineta Transportation Institute, contributing to academic advancements and interdisciplinary studies.

Oracle **Jul 2018 - Jan 2020**
Member of Technical staff *Bangalore*

- •Automated OCI scripts using Ansible, Go, and Python for storage domain testing.
- •Expertise in Terraform, Ansible, Docker, and containerization.
- •Hands-on experience with Unix/Linux, Windows systems, and distributed computing
- •I worked on storage, computing and networking modules in OCI, debugging projects.
- •Converted Python 2.x to 3.x and deployed projects to OCI using Bitbucket.
- •Resolved data processing, storage, and retrieval issues in OCI using automation.
- •Integrated Kubernetes with Jenkins for CI/CD automation.

Cognizant Technology Solutions **Aug 2014 - Jul 2018**
Programmer Analyst *Bangalore*

- Automated 500+ test cases using Python and shell scripting, establishing a regression suite for daily product health reporting and automated testing on Linux/Unix.
- Reduced CI run time from 4.5 to 2.5 hours, saving 500 hours annually.
- Proficient in Linux, Windows, and UNIX command-line operations.

•Configured databases and backend applications to enhance functionality.
•Collaborated with teams to integrate end-user feedback into improved solutions.
•Documented project progress and resolved ongoing issues effectively.

EDUCATION

California State University - Long Beach **Aug 2021**
M.S., Computer Science

West Bengal University of Technology - Kolkata **May 2014**
B.S., Information Technology

HONORS & AWARDS

•Won Global Recognition award 2024
•Won #FutureOfMeterReading Contest, Capgemini Super Techies
•Earned Global Project of the Year Award, Cognizant, 2
•Represented school in district-level basketball