**Gaurav Srivastava**

Bengaluru, India

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**Summary**

Software Developer with over 3 years of experience at BaseSolve Informatics Pvt. Ltd., specializing in scalable back-end solutions for genomics data analysis and healthcare information management. Key contributor to AUGMET, a Precision Genomics Suite, where I architected and led development of mission-critical internal systems. Transitioned into a DevOps Engineer role, enhancing CI/CD, infrastructure as code, and monitoring. Proven record of delivering robust, user-centric, high-performance features and automations that drive measurable impact.

**Experience**

**DevOps Engineer**March 2023 to Current

**BaseSolve Informatics Pvt. Ltd.** - Ahmedabad, India

* ****CI/CD Pipeline Automation (Platform Deployment Suite)****: Expanded and maintained CI/CD pipelines with GitHub Actions, reducing manual deployment steps by 60% and ensuring consistent, rapid releases for all product components.
* ****Infrastructure as Code (Cloud Resource Provisioning)****: Authored and versioned CloudFormation templates for all core services, standardising and accelerating environment creation, while cutting setup time.
* ****Platform Monitoring & Performance (Observability Dashboard)****: Configured CloudWatch metrics, dashboards, and OpenTelemetry traces to proactively detect and troubleshoot API performance issues, reducing incident response time by 50%.
* ****Microservices Integration (Automated Build and Release)****: Collaborated closely with development teams to integrate new microservices into automated build-and-release workflows, facilitating smooth launches, and cross-team efficiency.
* ****Environment Provisioning Automation (Resource Management Toolkit)****: Automated the provisioning process for test and production environments, achieving a 70% reduction in environment creation time.

**Python Developer (SDE2)**October 2021 to March 2023

**BaseSolve Informatics Pvt. Ltd.** - Ahmedabad, India

* ****Internal API Platform for AUGMET (Clinical Bioinformatics System)****: Led development of the foundational API system powering AUGMET, enabling secure genomic data analysis and laboratory management for leading healthcare institutions, including Dartmouth-Hitchcock Medical Center and NCGM. Improved daily variant throughput by 40%.
* ****AUGMET Command-Line Interface (Laboratory Data Access Tool)****: Architected and maintained a robust CLI with seven distinct modules, delivering secure, role-based genomic data access for more than 10 laboratories, several thousand researchers, and clinicians, ultimately servicing 1000+ patients per day.
* ****Automated Workflow Orchestration Service (Task Management Engine)****: Built a distributed engine for the AUGMET platform that automates complex genomics and pathology workflows, integrates with HPC clusters and AWS, provides real-time cost analytics, advanced job scheduling, fault tolerance, and enterprise monitoring—completely eliminating manual intervention and enabling scalable, efficient, cost-optimised bioinformatics operations for clinical and research environments.
* ****Modular Healthcare API Gateway & LIMS Systems:**** Built an advanced gateway integrating multiple LIS and LIMS systems—including the design and development of a native LIMS—featuring real-time HL7 (MLLP) result reporting, automated digital pathology workflows, and hierarchical patient/sample management. This dramatically accelerated data retrieval and improved onboarding for new clinical partners.
* ****Medical Image Processing Engine (Digital Pathology Pipeline)****: Built an advanced image processing component, converting histopathology slides to Deep Zoom format and improving browser-based diagnostic review, and research throughput.
* ****Platform Releases & Deployment Automation****: Managed bi-weekly AUGMET release cycles and spearheaded the automation of deployment processes, ensuring safe rollouts, and reducing operational overhead.

**Skills**

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| * Technical Leadership & Methodologies: Scrum, project lifecycle, project management, DevOps practices, CI/CD pipeline management, programming & design skills * Cloud and Infrastructure: AWS (EC2, S3, Lambda, IAM, CloudFormation, CloudWatch) * DevOps and Automation: CI/CD (GitHub Actions, CodePipeline), IaC (CloudFormation), OpenTelemetry, monitoring, and alerting | * Programming and Data: Python, SQL, MongoDB (aggregation pipelines and optimisation), Bash, C++ * Tools and Frameworks: Flask, Docker, Singularity, Git |

**Education**

**Bachelor of Technology** : **Mechanical Engineering**, 01/2018

**Dr. A. P. J. Abdul Kalam Technical University** - Greater Noida, India

**Websites, Portfolios, Profiles**

* http://linkedin.com/in/mech-srivastava-gaurav/
* http://github.com/srivastav-gaurav
* https://srivastav-gaurav.github.io/portfolio

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