

Nagendra Varma S

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SUMMARY

- Over 6+ years of IT Experience in problem solving, design, development, testing and implementation of various stand - alone and microservices architecture-based enterprise application software in Python on different domains.
- Proficient in working with relational databases such as MySQL and Postgres, as well as NoSQL databases, with a high level of expertise in SQL.
- Experience with Python testing and code analysis tools, such as Pytest and Pylint, to ensure code quality and reliability.
- Skilled in continuous integration and continuous deployment (CI/CD) using Jenkins and GitHub Actions, enhancing the automation and efficiency of development workflows.
- Proficient with version control systems such as Git and GitHub, ensuring robust source code management and collaboration.
- Strong scripting abilities with Python, and shell scripting (Bash) to automate various development and deployment tasks.
- Experienced in cloud services including AWS and Google Cloud, leveraging their features for scalable and efficient application deployment.
- Knowledgeable in developing cross-platform mobile applications using React Native, ensuring a seamless and consistent user experience across different devices.
- Hands-on experience with Apache Kafka for building real-time data streaming applications, ensuring efficient and reliable data processing and event-driven architectures.

SKILL SET

Python | Django | Flask | Apache Kafka | Core Java | HTML | CSS | JavaScript | CI/ CD | AWS | Google Cloud | AWS | SQL | MySQL | PostgreSQL | MongoDB | Microservices | Distributed Systems | Pytest | Pylint | Docker | Kubernetes | Jenkins | Github | JIRA | RDBMS | OAuth | REST | Swagger | React Native

WORK EXPERIENCE

Infosys Ltd.

Software Developer

Montreal, QC

Jul 2024 –Present

- Led the development of a real-time fuel optimization analytics platform for railway operations using Python and Flask, providing RESTful APIs for seamless data integration with client systems.
- Designed and implemented an event-driven architecture leveraging Apache Kafka to process and analyze trains data in real-time, ensuring low-latency and high-throughput data pipelines.
- Deployed microservices on Google Cloud Platform (GCP) using Kubernetes, ensuring scalable, reliable, and efficient management of containerized applications.
- Integrated MySQL and Cockroach DB for database management, utilizing MySQL for structured data storage and Cockroach DB for distributed SQL operations, ensuring high availability and data consistency.
- Optimized complex SQL queries to enhance the performance of data retrieval and manipulation tasks, contributing to the overall efficiency of the analytics platform.
- **Languages/Technologies:** Python, Flask, RESTful APIs, Apache Kafka, Google Cloud Platform (GCP), Kubernetes, MySQL, Cockroach DB, Docker, Git, JIRA

Boast.AI

Ottawa, ON

Full stack developer

Dec 2021 – Jun 2024

- Spearheaded the Python 2 to Python 3 migration project, ensuring futureproofing of the codebase and enhancing maintainability.
- Created a dynamic and user-friendly web interfaces using HTML, CSS, and JavaScript, React ensuring seamless navigation and engaging user experiences across platforms.
- Automated deployment pipelines using Jenkins and GitHub Actions, streamlining continuous integration and continuous deployment (CI/CD) processes for faster and more reliable releases.
- Leveraged Docker and Kubernetes for efficient containerization and orchestration, ensuring scalable and reliable application deployment
- Utilized AWS and GCP for cloud infrastructure, including services like Docker, Kubernetes, and RDBMS databases such as MySQL, PostgreSQL, and MongoDB, ensuring scalability, reliability, and performance optimization.
- Utilized GIT for version control and JIRA for project management, ensuring efficient collaboration and tracking of tasks and issues.
- **Languages/Technologies:** Python, Django, SQL, Jenkins, HTML, CSS, Javascript, Google Cloud, AWS, Docker, Kubernetes, Git, Pytest, Pylint, React, Jira, Restful APIs

Wipro Ltd.

Ottawa, ON

Software developer

May 2021 – Dec 2021

- Spearheaded the development of a dynamic e-commerce app using Django, enabling seamless product management, order processing, and user interaction.
- Integrated payment gateways such as Stripe and PayPal, ensuring secure transactions.
- Maintained code quality and version control using Git and GitHub, facilitating collaboration and efficient project management.
- Enhanced backend operations with Python, and shell scripting (Bash), automating repetitive tasks and improving overall system efficiency.
- Leveraged AWS and Google Cloud services to deploy and scale the application, ensuring high availability and robustness.
- Developed cross-platform mobile applications using React Native, providing users with a consistent and seamless experience across devices.
- **Languages/Technologies:** Python, Django, AWS, Google Cloud, Docker, Git, GitHub, Jenkins, GitHub Actions, Groovy, Bash, React Native

Wipro Ltd.

Bangalore, India

Python/ Django Developer

Dec 2016 – Aug 2019

- Designed and developed a data analytics platform using Python and Java, enabling real-time analysis of large datasets, and generating actionable insights for clients.
- Implemented RESTful APIs using Python Django and Java Spring frameworks, facilitating seamless integration with external systems and services.
- Leveraged Apache Kafka for stream processing, enabling the ingestion and processing of high-volume data streams with low latency.
- Developed machine learning algorithms and predictive models using Python libraries such as scikit-learn and TensorFlow, enhancing the platform's analytical capabilities.
- Collaborated with cross-functional teams to gather requirements, design system architecture, and deliver robust software solutions that met client needs.
- **Languages/Technologies:** Python, Java, Django, Apache Kafka, scikit-learn, Docker, Git, TensorFlow

ACADEMIC/ PERSONAL PROJECT

Dairy Farm App

- Designed and developed a comprehensive app for a dairy farm, facilitating online ordering, customer interaction, and product showcase.
- Developed an interactive product catalog showcasing dairy products.
- Integrated online ordering system with secure payment processing.
- Implemented feedback form for customer reviews and inquiries.
- Integrated social media sharing features for wider engagement.
- Developed easy-to-use content management system (CMS) for administrators.
- Implemented authentication mechanisms for secure access.
- **Languages/Technologies:** Python, React Native, MySQL, GitHub Actions, React

EDUCATION

University of Ottawa, Ottawa, ON, Canada
Master of Computer Science (CGPA: 9.0)

Sep 2019 - Jan 2021

CERTIFICATION

AWS Certified Solutions Architect - Associate