Arya Guddemane Vishwakumar

Software Engineer

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# SUMMARY

* Around **3+ years** of **experience** as a **software engineer,** proficient in a wide range of programming languages, including **Python, Java, MATLAB, SQL, R, C, and C++,** enabling versatile and adaptable **software development**.
* Extensive expertise in **web technologies such as HTML, CSS, JavaScript, AJAX, JSON, Typescript, and Rest API**, facilitating the creation of **dynamic and responsive web applications**.
* Experienced in utilizing popular **frameworks and libraries**, including **Django, Flask, React JS, Angular JS, Node JS, GraphQL, Seaborn, TensorFlow, Keras, and Matplotlib,** for building **robust and scalable** software solutions.
* Strong database management skills with hands-on experience in **MySQL, PostgreSQL, and MongoDB**, ensuring efficient **data storage, retrieval, and management.**
* Proficient in various **software development methodologies**, including **SDLC, Agile, and Waterfall**, allowing for **flexible and effective project management.**
* Skilled in **testing methodologies** such as **Unit Testing, Pytest, and Test-Driven Development (TDD),** ensuring the delivery of **high**-**quality, bug-free software**.
* In-depth knowledge of **cloud technologies**, particularly **AWS (EC2, EBS, S3, Lambda, and step Functions**) and **Google Cloud Platform**, enabling the **deployment and management** of **applications in cloud environments**.
* Utilizes a variety of tools like **Pyunit, Git, Jenkins, BitBucket, Jupyter Notebook, and Postman** for **version control**, **continuous integration**, and **efficient collaboration** in software development projects.

# TECHNICAL SKILLS

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| --- | --- |
| **Languages:** | Python, Java, SQL, R, C, C++, MATLAB |
| **Web Technologies:** | HTML, CSS, JavaScript, AJAX, JSON, Typescript, Rest API |
| **Frameworks and Libraries:** | Django, Flask, React JS, Angular JS, Node JS, GraphQL Seaborn, TensorFlow, Keras, Matplotlib |
| **Databases:** | MySQL, PostgreSQL, MongoDB |
| **Methodologies:** | SDLC, Agile, Waterfall |
| **Testing:** | Unit Testing, Pytest, Test-Driven Development (TDD) |
| **Cloud Technologies:** | AWS (EC2, EBS, S3, and Lambda, step Functions), Google Cloud Platform |
| **Tools:** | Pyunit, Git, Jenkins, BitBucket, Jupyter Notebook, Postman |

# EDUCATION

# Stevens Institute of Technology NJ

# Master of Computer Science Dec 2022

# Dayananda Sagar College of Engineering India

# Bachelor of Engineering in Computer Science May 2020

# WORK EXPERIENCE

# Software Engineer II 02/2023 - 10/2023

# Revenue Analytics GA

* Spearheaded the creation of captivating and user-friendly interfaces through expert utilization of HTML, CSS, and JavaScript, resulting in a seamless and immersive user journey.
* Facilitated seamless integration between Flask applications and dynamic frontend interfaces, collaborating closely with frontend developers and employing AJAX technology for efficient real-time communication.
* Engineered a resilient and scalable architecture for AngularJS applications, prioritizing modularity and reusability in component design, thereby streamlining code maintenance and promoting efficient code reuse.
* Orchestrated the entire Software Development Lifecycle, from inception to delivery, including the implementation of comprehensive test automation frameworks, execution of end-to-end testing, and rigorous code reviews, culminating in the delivery of high-quality products.
* Pioneered the establishment of robust CI/CD pipelines integrating TypeScript and Python components, automating testing procedures and deployment processes, thus ensuring consistent code quality across the development lifecycle.
* Championed Test Driven Development methodologies, leveraging PyUnit to meticulously craft tests prior to implementing corresponding functionalities, thereby guaranteeing code accuracy and comprehensive test coverage.
* Leveraged AWS services, including S3, Lambda, Step Function, and Batch, to architect a highly scalable infrastructure, achieving a remarkable 90% optimization in file uploading to S3, consequently reducing costs and enhancing scalability to cater to a global audience
* Top of Form

**Software Engineer Sep 2018 – Dec 2020**

**Trigent India**

* Accelerated front-end development projects by 15% through meticulous coding methodologies and agile practices, resulting in timely delivery of high-quality HTML, CSS, and JavaScript solutions.
* Engineered robust RESTful APIs with Django REST Framework, adhering strictly to industry best practices. Enhanced API performance and scalability, enabling seamless handling of concurrent requests and ensuring a responsive system architecture.
* Enhanced data retrieval efficiency by integrating React applications with GraphQL, collaborating closely with backend teams to optimize queries and mutations. Achieved streamlined data consumption and updates for enhanced user experience.
* Orchestrated seamless data migration initiatives, minimizing downtime and preserving data integrity during transitions between PostgreSQL versions and migrations to/from other database systems.
* Spearheaded the development and maintenance of comprehensive automated test suites using pytest, encompassing functional, integration, and regression testing. Implemented parallelization and distributed testing strategies, optimizing test efficiency and ensuring thorough coverage of application functionality.
* Pioneered automated testing frameworks and CI/CD pipelines, achieving a 90% automated test coverage and reducing deployment time by 25%. Instituted parameterized builds and dynamic configurations in Jenkins, enhancing deployment pipeline flexibility across diverse environments.

**PROJECTS**

# Loan Prediction Based on Customer Behavior

* Built creative model for test data with 87% accuracy. Resolved logistic regression problem by enabling bank to decide loans provision to customer. Analyzed and managed imbalanced data using SMOTE and ranked features with LightGBM.

# Job Change Prediction

* Forecasted with effective solutions on career change for employees with categorization based on age, experience, company size/type, and education level. Delivered better accuracy of results through complex data preprocessing and various algorithms.