



Bhargavi Poyekar

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CORE COMPETENCIES

- Competent in Coding, Testing and Debugging. Noteworthy abilities include:
 - **Ansible and Kubernetes** for Automation of VM Management and installing Libraries. [🔗](#)
 - **Python** Distributed System for Car Booking. [🔗](#)
 - **Django** Website for Emotion-based music player with **Object Oriented Principles**. [🔗](#)
 - **Flask** API for calculating points from a receipt using **Docker** Environment and **SOLID**, with endpoints. [🔗](#)
- Experienced in **RESTful API** third-party integration, incorporating diverse APIs to augment LMS functionalities.
- **Certified as AWS Developer Associate (DVA-C02)**, and **AWS Certified Cloud Practitioner (CLF-C02)**
- Proficiency in **MySQL, JavaScript, and Git** for full stack development and version control.
- Proven decision-making skills and a positive approach.
- Pliant to diverse project environments, skilled in teamwork, and capable of handling tasks self sufficiently.

TECHNICAL SKILLS

Languages and Databases: Python, Java, C/C++, PHP, Go, JavaScript, SQL, HTML, CSS, MySQL, SQLite, MongoDB.

Frameworks: Django, Django-Rest, Laravel, Selenium, Node.js, Flutter, Android Studio, Scikit, TensorFlow.

Others: Ansible, GIT, Linux, Pytest, Matplotlib, Pandas, NumPy, jQuery, Rest API, Ajax, Docker, Kubernetes, CI/CD.

PROFESSIONAL EXPERIENCE

Software Developer Intern, University of Maryland Baltimore County Jun 2023 - May 2024

- Automated the launch, configuration, and management of **50 Linux virtual machines (VMs)** using **Ansible** and Python Scripts, incorporating SSH-based debugging with jump hosts for seamless connectivity and troubleshooting.
- Established a **Django website** for VM management and employed Test Driven Development, featuring a self-signed SSL certificate. Conducted code reviews and created documentation to ensure code quality and maintainability.
- Implemented Ansible Vault for secure management of credentials, safeguarding access for over 100 students and faculty using the VM infrastructure.

Laravel Developer Intern, Origin Cloud Tech Jun 2020 - Aug 2020

- Led development of a **scalable LMS Platform** using the Laravel MVC Framework, resulting in a remarkable **increase of 2%** active users.
- Strengthened system security with **OAuth2** and **multi-factor authentication** via email and mobile OTP, integrating diverse APIs including payment gateways (PayPal, Razorpay), location, and Zoom, increasing website efficiency by **40%**.
- Crafted an appealing user interface using **HTML5, CSS3, Bootstrap, and Javascript**, perfected organization of database with **well-structured design** and SQL CRUD queries, and reducing query execution time by **10%**.

Website Developer Intern, Ask in City. Jan 2020 - May 2020

- Boosted user experience and website functionality by designing and implementing new e-commerce features using **HTML, SQL and PHP**, leading to a **8% increase** in user engagement.
- Adapted to an **agile environment** to optimize project efficiency, contributing to daily **scrum meetings** and fostering cohesive team collaboration, which culminated in a significant **10-day** reduction in project completion time.

PROJECTS

HDFS to S3 Data Transfer Application (Python, Hadoop, AWS):

- Developed a **Python** application to automate file transfers from **Hadoop HDFS** to **AWS S3**, reducing manual data handling time by 50%. Integrated Hadoop and AWS **SDKs** for efficient data management and secure operations.
- **Tech:** HDFS, S3 Bucket and Policy, Python, boto3, GIT, Linux.

Image Processing Web Application (Python, Computer Vision, Unit Testing):

- Implemented a **Django**-based web application featuring image processing functionalities. Prioritized **Modular programming** to ensure scalable and maintainable code structure leading to a 30% reduction in codebase complexity.
- Refined code quality with unit testing, thorough documentation, and Pylint for static analysis, reducing code review time by 25%.
- **Tech:** Django, Python, OpenCV, Matplotlib, Numpy, Pytest, Pylint, Conda, Pandas, VScode, Jupyter.

Token Manager (Replication, Atomic Semantics, Fail Silent model, Object Oriented Design):

- Developed a multi-threaded client-server application for token management with (1, N) replication.
- Deployed a resilient **read-impose-write-all** protocol, ensuring accurate maintenance of token state information and fail silent behavior for server nodes resulting in a 95% up time.
- **Tech:** Golang, gRPC, Google Protocol Buffer, SHA-256, socket programming, Mutex, Multithreading

EDUCATION

University of Maryland - Baltimore County

Masters - Computer Science; GPA: 3.85

Courses: Operating Systems, Computer Security, Artificial Intelligence, Computer Vision, Machine Learning, Data Visualization.

Sardar Patel Institute of Technology, University of Mumbai

B.Tech - Computer Engineering; GPA: 4

Courses: Object-Oriented Programming, Data Structures, Analysis Of Algorithms, Distributed Systems, Network, Web Development.

Maryland, United States

Aug 2022 - May 2024

Maharashtra, India

Aug 2018 - May 2022