Bhargavi Poyekar

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Education

University of Maryland - Baltimore County **Maryland, United States**
Masters - Computer Science; GPA: 3.88 Aug 2022 - May 2024
Courses: Operating Systems, Computer Security, Artificial Intelligence, Computer Vision, Machine Learning, Data Visualization.

Sardar Patel Institute of Technology, University of Mumbai **Maharashtra, India**
B.Tech - Computer Engineering; GPA: 4 Aug 2018 - May 2022
Courses: Object-Oriented Programming, Data Structures, Analysis Of Algorithms, Distributed Systems, Network, Web Development.

Technical Skills

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

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

Others: GIT, Linux, Ansible, Tableau, Matplotlib, Jupyter, Pandas, NumPy, Bootstrap, jQuery, Rest API, Ajax, Dockers

Professional Experience

Software Developer Intern, University of Maryland Baltimore County **Jun 2023 - Aug 2023**

- Automated the launch, configuration, and management of **50 virtual machines (VMs)** using Ansible.
- Established a **Django website** for VM management, featuring a self-signed SSL certificate, resulting in a **30% latency reduction**.
- Streamlined VM deployment and ensured consistent configurations across VMs using **Ansible playbooks**, integrating command line operations and Python code, resulting in a **40% reduction** in configuration time.

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

- Led development of a **scalable** LMS Website using the Laravel MVC Framework, resulting in a remarkable **increase of 150** active users.
- Enhanced system security with **multi-factor authentication** via email and mobile OTP, integrating diverse APIs including payment gateways (PayPal, Razorpay), messaging, location, and Zoom, increasing website efficiency by **40%**.
- Crafted an appealing user interface using **HTML, CSS, Bootstrap, and Javascript**, perfected database management with **well-structured design** and CRUD queries, demonstrating UI/UX design skills and reducing query execution time by **25%**.

Website Developer Intern, Ask in City **May 2020 - Jun 2020**

- Elevated user experience and website functionality by designing and implementing new e-commerce features using **HTML and PHP**, leading to a **20% increase** in user engagement.
- Incorporated **agile methodology** 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

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

- Developed a 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: Go, gRPC, Google Protocol Buffer, SHA-256, socket programming, Mutex.**

Cyber Attacks and Prevention (ARP Poisoning, SSL/TLS, Diffie Hellman, RC4, DOS, Firewall):

- Simulated **MITM** attacks, achieving a 98% success rate in interception and access to sensitive information.
- Implemented secure communication channels resulting in a 95% reduction in data breach incidents.
- **Tech: Netcat, TcpDump, Arpspoof, Apache, Linux, Openssl, UFW, Hping, HTTPS.**

Face Recognition Attendance System for Online Classes (Neural Network, Computer Vision):

- Created a reliable attendance system with an accuracy of **93%** for online classes that utilizes sophisticated face detection and recognition algorithms.
- Optimized the model to function seamlessly even in adverse conditions such as low light intensity, head tilt of 30 degrees, and blurred images.
- **Tech: Python, HOG, VGG, Django, CNN, Scikit-learn, Pandas, Numpy, Matplotlib.**

EMOMUSIC: (Computer Vision, Web Development):

- Engineered an application achieving **96%** accuracy in identifying user's emotions through facial expression analysis.
- Leveraged this analysis to offer personalized playlist recommendations, and created an advanced music player resulting in a 25% increase in user satisfaction.
- **Tech: Python, Django, CNN, HTML, CSS, Ajax, JQuery, JavaScript, SQLite, Pytorch, Numpy, Pandas.**