SATYENDRA SHRIVASTAVA

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EDUCATION

Master of Science in Information Technology   **GPA: 4.0/4.0**
Arizona State University, Tempe, USA   *Aug 2022 — May 2024*
Relevant Coursework - Operating Systems, Analyzing Big Data, Database Management Systems

Bachelor's of Engineering   **GPA: 3.8/4.00**
Rajiv Gandhi Technical University, Bhopal, India   *Jul 2018 — Jun 2022*
Relevant Coursework - Data Structures, Design and Analysis of Algorithms, Operating Systems, Computer Architecture,Machine Learning, Artificial Intelligence, Blockchain Technologies.

EXPERIENCE

Software Development Engineer   Jun 2021 — Jul 2022
Ylytic   *Bangalore, India*
- Spearheaded the development of Ylytic.com utilizing Next.js and Flask, focusing on distributed system design. Enhanced user registration and analytics dashboards, resulting in a 47% increase in platform reach.
- Automated build and deployment processes using Jenkins and Docker, optimizing multi-threading and distributed system operations to improve deployment efficiency by 33%.
- Optimized backend infrastructure and improved API efficiency, significantly enhancing the user registration workflow, leading to a 75% increase in customer acquisition.

Software Development Intern   Jan 2021 — May 2021
Greendzine   *Bangalore, India*
- Engineered a real-time warehouse inventory management system using React.js, Node.js, and MongoDB, resulting in a 49% improvement in inventory management efficiency.
- Created precise object detection tool using OpenCV and TensorFlow, achieving 78% accuracy in component identification, addressing a critical operational need.
- Enhanced operational efficiency by integrating the object detection tool with the inventory management application, boosting overall operational efficiency by 59%.

TECHNICAL SKILLS

Programming Languages: Python, Golang, C++, Java, JavaScript, Typescript
Frameworks and Libraries: Next.js, React.js, Flask, Django, Node.js, Springboot, GraphQL, RESTful APIs.
Databases: MySQL, Cassandra, MongoDB, Couchbase, PostgreSQL
Cloud Services: AWS (EC2, Lambda, RDS, DynamoDB, S3, Elastic Beanstalk, Elasticsearch, IAM), Azure, GCP.
DevOps Tools: Jenkins, CI/CD, Docker, Kubernetes, Terraform, Git, Ansible.

PROJECTS

Virtual Try-On   Jan 2024 — May 2024
- Devised an AR application in Python using OpenCV for virtual clothing try-on.
- Reached 98.4% facial recognition accuracy with iBug 300-W dataset, significantly enhancing system reliability.

Marketplace Application   Oct 2023 — Dec 2023
- Architected a secure marketplace using React, Django, and MongoDB, facilitating seamless buying and selling of used items.
- Integrated Okta and Google SSO, PayPal, Prometheus, Loki, Jenkins CI/CD, Docker, Kubernetes, and SSL management, reducing deployment time by 42% and increasing reliability by 28%.

Personalized Content Recommendation System   Jan 2023 — Mar 2023
- Implemented collaborative and content-based filtering in Python, integrated with a React.js front-end and Flask back-end, utilizing AWS (S3, Lambda, RDS) and A/B testing.
- Boosted user engagement by enhanced personalized content delivery, resulting in a 43% increase in user engagement within three months, driving higher user retention.