SALONI
Los Angeles, CA| bhagat.saloni4@gmail.com | +1 (213)-574-7476 | Portfolio | GitHub | LinkedIn

EDUCATION

University of Southern California, Los Angeles, CA **12/2025**
Candidate for a Master of Science in Computer Science **GPA: 3.67/4.00**
Relevant Courses: Machine Learning, Natural Language Processing, Information Retrieval and Web Search Engines, Analysis of Algorithms, Database Systems, Operating Systems.

BMS College of Engineering, Bengaluru, India **07/2022**
Bachelor of Engineering in Information Science and Engineering **GPA: 4.00/4.00**
Relevant Courses: Data Structures, Algorithms, Operating Systems, Object Oriented Programming using C++, Data Communication and Networking, Computer Networks and Security, Database Management Systems, Virtualization and Cloud Security, Machine Learning, Deep Learning.

TECHNICAL AND SOFT SKILLS

- **Programming Languages:** Python, C, C++, JavaScript, HTML/CSS, Typescript.
- **Frontend:** ReactJS, Bootstrap, NextJS, ReactNative.
- **Backend:** NodeJS, ExpressJS, MongoDB, PostgreSQL, MySQL.
- **Proficient with**: JIRA, GIT, Bitbucket, AWS, Jest, Pandas, NumPy, TensorFlow, GCP, Keras, PyTorch, Matplotlib, Apache Spark

PROFESSIONAL EXPERIENCE

BYJUS, Bengaluru, India | *Software Engineer* **07/2022 – 11/2022**

- Contributed as a Full Stack Developer in both WMS (Warehouse Management System) and OMS (Order Management System) teams, providing production support and resolving user issues. Developed a dedicated inventory line for refurbished products in OMS.
- Integrated AI-powered predictive analytics for inventory tracking, enabling proactive restocking and reducing product shortages. Automated batch job processes for inventory updates in Tangible Play (Osmo), boosting throughput by 25%.
- Developed a dedicated inventory request line for refurbished products, reducing manual interventions by 30% and improving system reliability by 20%. Pioneered a Jest-based testing framework, minimizing bugs and conducting Knowledge Transfer (KT) sessions on test-driven development for WMS, WOS, and WFS teams.

Dacway IT Solutions Pvt Ltd, Pune, India | *Software Intern* **04/2023 – 11/2023**

- Worked as a Full-Stack Software Intern in the development team, contributing to designing and enhancing enterprise applications **Zneex** and **Vrukshavalli**, improving system performance by 30% through feature optimization and modular code design.
- Integrated AI-powered recommendation systems for Zneex's customer engagement module, boosting user interaction by 25% through personalized suggestions and adaptive learning models.
- Delivered real-time production support, resolving critical business issues with an average response time reduction of 40%, ensuring minimal operational disruption.
- Automated repetitive tasks through custom-built scripts, improving code deployment efficiency by **35%**. Enhanced data consistency with predictive models for anomaly detection in Vrukshavalli's database.

Stratos Studios Pvt Ltd, Bengaluru, India| *Software Intern* **04/2022 – 06/2022**

- Worked extensively on the Salesforce CRM platform, leveraging tools like Flows, Process Builder, and Apex to automate complex business processes, reducing manual tasks by 40% and enhancing operational efficiency.
- Built a custom Approval Process integrated with Salesforce Flows, ensuring instant manager notifications and auto-approvals based on predefined criteria, reducing approval time by 35%.
- Earned 4 trailhead Super-badges: App Customization Specialist, Security Specialist, Process Automation Specialist, and Business Administration Specialist.

PROJECT EXPERIENCE

Weenix Operating System **08/2024-11/2024**

- Implemented a UNIX-based monolithic kernel for a single-processor operating system that supports a wide range of user space programs, developed in C.
- Implemented processes, threads, mutexes, VFS, V5FS, and Virtual Memory (Implemented virtual memory maps, page fault handler, anonymous and shadow objects, and system calls such as fork (), and with these, the Weenix kernel can manage user address spaces, run user-level code and service system calls.

Cancellable Biometrics Using Deep Learning **09/2021-05/2022**

- Implemented Cartesian and Reed Solomon Algorithms on the fingerprints captured in the database to store the hash result in the system. The hash output will be compared to the user's original fingerprint to verify the user's identification.
- Won First Prize at BMSCE Project Open Day 2022, competing against 50+ projects, earning recognition for technical excellence and real-world applicability. Received a cash award of $1000 for groundbreaking innovation and research depth.

Covid-19 Site **06/2021-07/2021**

- Actively contributed to an open-source project on the GitHub platform.
- Utilized JavaScript and React to resolve complex issues reported by the contributor and implemented scalable, user-centric features, significantly improving site functionality and user experience.

Credit Card Fraud Management **09/2020 – 10/2020**

- Developed a machine learning model for detecting fraudulent credit card transactions with 98% accuracy using a Random Forest Algorithm. Leveraged feature engineering to improve precision, reducing false positives, and enhancing detection efficiency by 30% through hyperparameter tuning and cross-validation, ensuring fast and reliable real-time fraud detection.