

FNU SALONI

Los Angeles, CA (Open to Relocation) | bhagat.saloni4@gmail.com | (213)574-7476 | [Portfolio](#) | [GitHub](#) | [LinkedIn](#)

EDUCATION

University of Southern California, Los Angeles, CA | Candidate for a Master of Science in Computer Science | GPA: 3.71/4.00 December 2025

Relevant Courses: Machine Learning, Natural Language Processing, Analysis of Algorithms, Database Systems, Operating Systems.

BMS College of Engineering, Bengaluru, India | Bachelor of Engineering in Information Science and Engineering | GPA: 4.00/4.00 July 2022

Relevant Courses: Data Structures, Algorithms, Operating Systems, Object Oriented Programming using C++, Data Communication and Networking, Computer Networks, Database Management Systems, Virtualization and Cloud Security, Machine Learning, Deep Learning, Cloud Computing

SKILLS

- Programming Languages:** Python, C, C++, Java, JavaScript, HTML/CSS, Typescript, Scripting (Shell, Bash)
- Frontend/Backend (Full Stack):** ReactJS, Bootstrap, NextJS, ReactNative, NodeJS, ExpressJS, MongoDB, PostgreSQL, MySQL, Cassandra, NoSQL
- AI/ML Libraries:** TensorFlow, PyTorch, Keras, Scikit-learn, Hugging Face Transformers, LoRA, Pandas, NumPy, Matplotlib, OpenCV, Apache Spark
- Tools, Platforms & Methodologies:** Linux, JIRA, Git, Bitbucket, Docker, AWS, GCP, Firebase, Jest, GPU (CUDA), REST API, Kubernetes, Selenium, Jenkins, Google Analytics, Notion, Figma, Agile, Project Management, TDD, CI/CD, Azure, DynamoDB, OpenSearch, Redis

EXPERIENCE

Tringapps, Inc. | Software Developer Intern | New York, United States

June 2025 - August 2025

- Developed an LLM-powered chatbot using Amazon Lex, AWS Lambda, and Bedrock, automating product search, comparison, and support workflows for a lab equipment platform; collaborated with cross-functional teams to refine end-to-end chatbot optimization.
- Integrated enterprise systems (Oracle DB + Salesforce CRM) via secure APIs, enabling real-time personalized responses based on user queries and order history, improving support efficiency and user engagement.
- Optimized chatbot accuracy by implementing intent clarification and fallback handling, boosting successful query resolution rates by 30% and reducing response times by 40% through caching and structured knowledge retrieval.

Dacway IT Solutions Pvt Ltd | Software Intern | Pune, India

April 2023 - November 2023

- Engineered full-stack modules for Zneex and Vrukshavalli, enhancing system performance by 30% via modular code and feature optimization.
- Integrated AI-driven recommendation systems into Zneex, increasing user engagement by 25% through personalized content.
- Automated deployments and production support scripts, reducing response time by 40% and improving release efficiency by 35%.

BYJUS | Software Engineer | Bengaluru, India

July 2022 - November 2022

- Developed features for both WMS (Warehouse Management System) and OMS (Order Management System) teams. Resolved user issues and launched a dedicated refurbished inventory line using effective problem-solving and interpersonal collaboration.
- Implemented AI-based predictive analytics for inventory tracking and automated batch jobs, boosting throughput by 25%.
- Built a Jest testing framework and led KT sessions on TDD, reducing bugs and improving system reliability by 20–30%.

Stratos Studios Pvt Ltd | Software Intern | Bengaluru, India

April 2022 – June 2022

- Automated business processes in Salesforce CRM using Flows, Process Builder, and Apex, reducing manual tasks by 40%.
- Built a custom Approval Process with auto-approvals, cutting approval time by 35%. Earned 4 Trailhead Superbadges: App Customization, Security, Process Automation, and Business Admin.

PROJECTS

Weenix Operating System

- Built a UNIX-based monolithic kernel in C supporting user space programs for a single-processor system.
- Implemented processes, threads, mutexes, VFS, V5FS, and a Virtual Memory subsystem including memory maps, page fault handler, anonymous/shadow objects, and system calls, enabling the kernel to manage user address spaces, run user code, and handle system calls.

Natural Language to SQL Transformer

- Developed a Natural Language to SQL system using SyntaxSQLNet and fine-tuned LLMs (T5, CodeT5, BART, LLaMA) to enable non-technical users to generate SQL queries from natural language.
- Applied LoRA fine-tuning on WikiSQL and Spider datasets, achieving 0.75 Execution Accuracy and 0.82 BLEU Score; benchmarked across zero-shot, one-shot, and few-shot settings with real-time query execution on IMDB-WikiSQL.

Cancellable Biometrics Using Deep Learning

- Implemented Cartesian and Reed-Solomon algorithms to hash and verify fingerprint data for secure biometric identification.
- Won 1st Prize at BMSCE Project Open Day 2022 (50+ projects); awarded \$2000 for innovation, technical excellence, and real-world applicability.

Credit Card Fraud Management

- Developed a machine learning model for fraud detection with 98% accuracy using Random Forest.
- Leveraged feature engineering and hyperparameter tuning to reduce false positives and improve detection efficiency by 30% through cross-validation for real-time performance.