

## SALONI

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### EDUCATION

**University of Southern California, Los Angeles, CA**

**12/2025**

**Candidate for a Master of Science in Computer Science**

**GPA: 3.50/4.00**

**Relevant Courses:** Analysis of Algorithms, Database Systems, Operating Systems, Information Retrieval and Web Search Engines, Machine Learning, Natural Language Processing.

**BMS College of Engineering, Bengaluru, India**

**07/2022**

**Bachelor of Engineering in Information Science and Engineering**

**GPA: 3.68/4.00**

**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, AndroidStudio, TensorFlow.

### 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.
- Led Jest testing in WMS, introduced the first testing suite for inventory modules, and implemented a batch job process within a WMS inventory module for the Tangible Play (Osmo) project.

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

**04/2023 – 11/2023**

- Assisted, as a Full-stack Software intern, in developing and maintaining applications (Zneex and Vrukshavalli), providing production support and resolving user issues.
- Contributed actively to coding, debugging, and testing efforts, gaining experience with cross-platform development tools and collaborating closely with team members.

**Stratos Studios Pvt Ltd, Bengaluru, India** | *Software Intern*

**04/2022 – 06/2022**

- Worked on the Salesforce platform, leveraging CRM tools like Flows for data automation and developing programs using Apex to enhance operational efficiency.
- Earned four Trailhead Superbadges: 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 which 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 and then the hash output will be compared to the user's original fingerprint to verify the identification of the user.

**Covid-19 Site**

**06/2021-07/2021**

- Contributed to an open-source project on the GitHub platform.
- Used JavaScript and React in order to solve the issues listed down by the contributors as well as added new features to the site.

**Telecom User Churn Prediction**

**03/2021-04/2021**

- Developed a solution to predict customer churn in the telecom industry by integrating a customer-churn dataset with a Machine Learning framework. The highest prediction accuracy was achieved using a voting ensemble classifier.

**News Application**

**11/2020-01/2021**

- Utilized Android Studio to build this app which presents a continuous flow of links to articles organized from thousands of publishers.

**Credit Card Fraud Management**

**09/2020 – 10/2020**

- Implemented various Machine Learning algorithms to detect fraudulent transactions with the provided data set., highest accuracy predicted was using a Random Forest Algorithm.

**Proctor Management Diary**

**04/2020 – 06/2020**

- Included sending the progress reports of each student to his/her proctor furnishing the details of class marks, and examination results as well as the proctor can update the student's details and validate their marks.