GAGANDEEP SINGH

contact@igagansingh.com | +1(562)336-9424

EDUCATION

California State University, Long Beach | Master of Science – Computer Science   **Dec 2021 (Expected)**

Relevant Coursework: Advanced Analysis of Algorithms, Advanced Software Engineering

GGSIPU, Delhi | Bachelor of Technology – Computer Science and Engineering   **June 2018**

WORK EXPERIENCE

Infosys | Systems Engineer | Bangalore, India   **Sept 2018 – Dec 2019**

- Worked on Spring Boot REST API service providing an interface for multiple business applications to interact with master data of the sales unit.
- Implemented and added test cases for a new REST API (Spring Boot) service whose data source is a NoSQL (Couchbase) and search engine (Solr).
- Responsible for adding new features to the existing design.
- Identified, analysed, and resolved software bugs during testing and production stages.
- Experience with CI/CD models.
- Participated in scrum agile software development.

Version Absolute Design Studio | Software Engineer Intern | Delhi, India   **June 2017 – Sept 2017**

- Designed and developed a cost-effective, efficient Digital Directory using the LAMP stack and bash scripts.
- Deployed prototype on a low-cost computer which facilitates updating data remotely.

ACADEMIC/PERSONAL PROJECTS

Sikh-O Punjabi | Java + Android
- Developed an application to educate users about Punjabi language phrases and alphabets.
- Available on Google play store with **10,000+ downloads.**

Smart Glass | Raspberry Pi Zero + OpenCV
- Designed and developed a Wearable Smart Glass for capturing and recognizing an image using OpenCV.

InfyFacilities | iOS + Swift + Java Servlet + MySQL
- iOS application for managing and viewing requests raised by employees.
- Developed one of the four modules. Provided the login credentials, the user is directed to the apt module.

World Tech Notes | Java + Android + Firebase
- Android application hosted on Google Play Store that gives access to notes instantly.
- Using Firebase to host a master file that contains JSON data about the subjects and a Google drive link to notes of that subject.

RESEARCH EXPERIENCE

IEEE ICACCCN | Greater Noida, India   **2018**
Facial Detection and Recognition using OpenCV on Raspberry Pi Zero
- Presented an extensive analysis of system design, incorporation of LBPH facial recognition algorithm in convergence with Raspberry Pi hardware components to develop an optimized balance between time latency, CPU utilization, and accuracy of algorithms.

TECHNICAL SKILLS

- **Operating System:** Windows, Linux, Android, Raspbian
- **Database:** Couchbase, SQLDeveloper
- **Language and SDKs:** Java, Python, Swift, iOS, Bash, HTML, CSS
- **Testing Tool:** Postman
- **Frameworks:** Spring Boot, Flask, ANTLR, Solr, Kafka
- **Version Control System and Build Tool:** Git, Gradle