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ABHISHEK SINGH

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CAREER OBJECTIVES

- I am a Software Developer with great problem-solving skills. I am a curious person who is always ready to learn new things. I have a goal of becoming one of the best Software Developers in the world.

EDUCATION

Seed Infotech   Pune, Maharashtra, India   July 2022 – Nov 2022
- **Java Full Stack Development Course** - C, SQL, Responsive Web Development, Core Java, Advanced Java, AngularJS, Spring Boot.

VIIT, Pune University   Pune, Maharashtra, India   Aug 2016 – Oct 2020
- **B.E. in Computer Science, GPA: 8.20**
- **Graduate Coursework:** Design and Analysis of Algorithms, Operating Systems, Object-Oriented Design and Development, Database Management Concepts and Systems, Software Engineering, Internet Protocols.

B.K. Birla Centre for Education   Pune, Maharashtra, India   Aug 2010 – May 2015
- National Level Skating, State Level Chess, House Captain, Science and Tech Education, Learnt Java and MySQL.

EMPLOYMENT

Web Development Intern   9W Media, Pune, India   Dec 2018 – Feb 2019
- Made Responsive Web Pages using **HTML** with **Bootstrap** and **CSS** for styling and **JavaScript** and **JQuery** to make it functional.

Software Engineer   ScopeSys Innovations, Pune, India   Nov 2022 – Aug 2023
- Develop **Micro-services** in **Spring Boot** using **Java17**. **Hibernate**, **JDBC** and **Liquibase** for Database Management. **Apache Kafka** for Messaging. **Apache Cassandra** for No-SQL
- Use of **Git** and **GitHub** for version control of Micro-services

LANGUAGES AND TECHNOLOGIES

- **Languages** - C/C++, Python, HTML/CSS, Javascript/Typescript, Java17
- **Technologies** - Spring Boot, Apache Kafka, Hibernate, JavaPersistenceAPI(JPA), Liquibase, JDBC, Node.js(MERN), Git/GitHub
- **Database** - SQL/ MySQL, MongoDB, Apache Cassandra

PROJECTS

- **Order Management System :** This project is developed on **Spring Boot** based on the **Microservices** Architecture. It has **Hibernate** for Database Entity management, uses **REST controllers** for backend APIs, **Log4j** for logging messages, **Controller-advice** for global exception handling, JPA named queries, DTO validation, Spring Cloud, **JWT Authentication** which is being deployed as pods using **Kubernetes** and **Docker** on **Azure Cloud**
- **Python Socket Malware :** This project is a **hacking** program made for phishing WiFi data from the client's computer. It is made using **python** which uses **sockets** to create a connection from the hacker to the target. It uses **shell/bash** scripting based on the operating system to run the client file without letting the target know.
- **Java Tutorial :** This is a **GitHub** repo which is a learning module for Java. It consists of all new features added from Java 8 to Java 17 with examples and explanations. Some of the topics include - **Java Streams**, Optionals, **Lambda** expressions, Functional Interfaces, **Collectors** Group-by, **Records**, Text-blocks, Java **Collections** API.
- **News API :** This project creates a RESTFUL Application Program Interface (**REST API**). It provides **CRUD** features to insert, update, delete, and display news articles from various sources. Built on **Express** Framework using packages like **mongoose** for database connectivity to MongoDB, **handlebars** as the templating engine.
- **Image Super Resolution :** This project uses an **MIT**-based **Machine Learning** algorithm built on an Enhanced Super Resolution Generative Adversarial Network(ESRGAN). The Super Resolution application is made on **Django** having a User Interface made with **HTML**, **Bootstrap**, and **CSS** with **Python** backend files.
- **Attendance App :** This is an **android** application made on Android studio for attendance management used by teachers. It uses **firebase** for database management to store information on classes, students, and batches. Backed with **SQL-Lite** for the Database Management.

RESEARCH WORK

- **Image Enhancing Utility and Rapid Image Transfer using GAN** - A research for comparing various Super Resolution algorithms based on parameters like Peak Signal to Noise Ratio, Similarity Index of a super resoluted image with the original high res image. This research compares various Generative Adversarial Networks algorithms for Super Resolution and finally uses ESRGAN to develop an Image Enhancing Utility to upscale images.

ADDITIONAL EXPERIENCE AND AWARDS

- Certified **Ethical Hacker**
- Member of **Toastmasters Club of Delhi**. Performed Sergeant at Arms at District Speech Competition. Bagged Nurturer of the Month Award.
- Solved around **200 questions** on Data Structures and Algorithm on Leetcode, GeeksforGeeks, Codechef, Hackerrank. **Champion** Level on Coding Ninjas.
- **Codechef 3(star)** coder with highest rating of 1610. Got **90th Global rank** in Codechef starters 62.
- Hackerrank **Java Certification**.
- **Python Certification** from Eduonix.
- **Udemy Certification** on Spring Boot and Hibernate.

CO-CURRICULAR ACTIVITIES AND HOBBIES

- **Skating** - Inter-house tournament Silver Medal winner, National Level tournament participation
- **Chess** - District Level 2nd Rank holder. 14th Rank State Level Tournament
- **Football** - District Level Participant
- Head of Cyber Cell, VIIT and Secretary of ISACA,VIIT in 2019
- Hobbies - Travelling, Music, Bike Riding