AKSHIT SINGLA

Firozpur, Punjab

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EDUCATION

Chandigarh University   08/2020 – 06/2024
*B.E/Computer Science - **CGPA - 8.34***   *Mohali, India*

DCM Sr. Sec. School   04/2018 – 04/2020
*10+2 - **Percentage - 92.6%***   *Firozpur, India*

DCM Sr. Sec. School   04/2017-04/2018
*Matriculation - **Percentage - 94%***   *Firozpur, India*

SKILLS

Languages: Python, Java, C, C++, Groovy, JavaScript, SQL, NoSQL, YAML,HTML,CSS

Technologies/Frameworks: Linux, GitHub, ReactJS, Angular, NodeJS, ExpressJS, Git, Mongo, PostGreSQL, PHP, Redis, Ansible, ROBOT, Kubernetes, Docker, Jenkins

CourseWorks: Data Structures & Algorithms, Operating Systems, Web Development, Database Management System (DBMS), Machine Learning, OOPS Concept, Automation & CI/CD, Agile Methodologies(JIRA, Confluence)

SoftSkills: TeamPlayer, ProblemSolver, QuickLearner, Empathic Listener

EXPERIENCE

Nokia Solutions and Network India Private Limited ⤢   07/2023 – Present
Research and Development Intern   *Gurugram, India*

- **Nokia's Selective Testing Project for Functional testing**
  * Devised and Engineered a software which utilized **Python** and **ML** for detecting the **Test Cases** Impacted based on **Method** level changes in **Java** Codebase.
  * **Incorporated** the software within **NCC** to determine the **changes/checkin** which have lead to failure of specific TestCases.At an average only **30%** of checkins were listed as potential causes.
- **Developed robust automation for Selective Testing with CI/CD**
  * Implemented a **Python Script** to **setup test environment** and execute List of **ROBOT** Test Cases.Reduced setup effort by **90%** and time by **80%**.
  * Worked on **Jenkins(Pre-Merge Integration)** along with **Ansible** to integrate this software with **versioning tools(Git,Gerrit)** to automatically setup and destroy Labs after executing TestCases when developer submits a **specific comment on Git checkin**.
- This software played a pivotal role in **reducing over 60% infrastructure (VM's) cost** and **increasing Developer Feedback Loop by 70%**.

PROJECTS

AQI Detector ⤢ | **Python, Arduino, Sensors, ThingsBoard**   04/2022
- An IOT project focused on monitoring Air Index with graph-based visualization on **ThingsBoard** platform involves **MQ-135** along with **Python** programming to fetch results.
- **MQ-135** was attached to **Arduino** board and than **Python** script was pushed with **Arduino** IDE .

E-mail Authenticator ⤢ | **Python, smtplib**   03/2023
- Designed and built an E-mail authenticator sends an **OTP** for verification to a user whenever someone tries to login into a **custom-made website.**
- Increased the security of website by 35% preventing the website against **Password theft**, **Man in the Middle** and **Phishing Attacks**

College-Space ⤢ | **Python, smtplib**   03/2023
- A **Website** to provide students with study materials of their branch and course hassle free.Website was based on with and without **login systems** and students could download as well as upload solutions, doubts etc.
- Designed **frontend** with **ReactJs and ThreeJs** for a user friendly interface.Worked to integerate **backend** with frontend using **NodeJs** and storing data as a **PHP** based Form.

CERTIFICATIONS

- NodeJS - Internshala
- Kubernetes L1 - Nokia
- Java 11 Beyond Basics -Infosys
- Angular - Nokia
- Python for Everybody - Coursera