**SHUBHAM TIWARI**

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| **EDUCATION** | | | | | | | | | | |
| **Thapar Institute of Engineering and Technology, Patiala**  Bachelor of Engineering in Computer Science Engineering, GPA: 8.06/10  **Shaheed K P S Inter College, Devaria Churamani, Gonda**  Intermediate, Percentage: 87.2% | | | | | **India**  **July 2019- July 2023**  **India**  **July 2016 – July 2018** | | | | | |
| **WORK EXPERIENCE** | | | | | | | |
| **Data Engineer** | |  | | | **Python, GCP, Apache Beam, SQL, Bigframe, Pandas, PostgresSQL**  Sept. 2023 – Now | | |
| * Developed lower cost strategy by removing cloud Dataproc & cloud composer. * 6.4 million files coming on daily basis and need to be transform and ingest into BigQuery tables. * Performed different POC with cloud run, cloud function, dataproc and dataflow * Saving 30% cost ~$150K pa by implementing an optimal and efficient solution. Performed production load testing. | | | | | | | |
| **PROJECT EXPERIENCE / OPEN SOURCE** | | | | | | | | |
| **Internship @Ericsson India Global Services** | |  | | | **Python, Google cloud platform (GCP), Big Query & other GCP services, SQL,** | | | |
|  | |  | | | Jan. 2023 – Jul. 2023 | | | |
| * Problem area overspending, lack of automation and security and compliances. * Proof of concept for a **lightweight data ingestion and aggregation pipeline**. * Designed solution for automation that can reduce cost, time, efforts, and other resources. And can predict service degradation in advance. * Have MNC work culture experience, teamwork, professionalism, solved real-time problems, gained debugging skill. | | | | | | | | | | |
| **DURI – Digital Universal Remote Interface**  **Research Paper + PATENT** | |  | | | **Python, Computer vision, Nvidia Jetson Nano kit, MediaPipe, PyQt5, Autopy**  March 2022 – July 2022 | | | |
| * Innovated an AI based software for public computers using that people can interact with computer by their fingers before the camera with the **accuracy of 98%.** * Objective is to prevent from spreading **COVID-19 like diseases** by avoiding touching the same **public computer (i.e. ATMs)** by people. * Proposed interface for controlling robots and **Reduces 90% manufacturing cost of mouse and keyboard.** | | | | | | | | |
| **Lakhan Mitra: Book to eBook** |  | | | | **Python, OpenCV, Tesseract OCR, PyQt5, Django, HTML, CSS**  Nov. 2021 – July. 2022 | | | |
| * Created a solution for people **to make eBooks from the hard copy of books** of any language e.g., Tamil, Telugu, Urdu, Sanskrit, etc. * Scan the book it will convert into an eBook for people. **Save 90% time in typing** Only need is formatting. * Monitored **more than 100 languages** are supported to preserve book’s literary value.2 | | | | | | | | |
| **TECHNICAL SKILL** | | | | | | | | | |
| **Programming Languages:** | | | | Python, C, C++, PHP ***Familiar with*** Scala, R(Basic), Dart, JavaScript, C# | | | | | |
| **Databases:** | | | | BigQuery, MySQL, PostgreSQL, SQLite3 ***Familiar with*** PL/SQL (Procedural Language) | | | | | |
| **Libraries/Framework:** | | | | Pandas, NumPy, Seaborn, Matplotlib, MediaPipe, OpenCV, Scikit-Learn, TensorFlow, Big Query | | | | | |
| **Frontend** | | | | HTML, CSS, Bootstrap | | | | | |
| **Backend** | | | | Flask, Django, PHP, Apache Beam | | | | | |
| **Automation Script** | | | | Developed multiple automation for testing, analysing the data pipeline (CI-CD) | | | | | |
| **Competitive Programming/Problem Solving** | | | | 5\* on [***HackerRank***](https://www.hackerrank.com/to_shubham79051) and 3\* on [***Codechef***](https://www.codechef.com/users/shubham7821) | | | | | |
| **Basic familiarity of tools** | | | | GIT, Gerrit, DBeaver, Azure, AWS, Linux, Maya2020, Docker, | | | | | |
| **POSITION OF RESPONSIBILITIES/EXTRA CURRICULAR ACTIVITIES** | | | | | | | | | |
| * **Rotaract Club of TIET | Marketing head (**2020-2022). | | | | | | | | | |
| * **Mathematics Teacher** of class 9th-12th @ Unique Academy 1.5+ years’ experience (March 2020 – Sept. 2021). | | | | | | | | | |
| * **Voluntarily organized art & singing competitions** in the rural area and **motivated** **students** toward science and education. * Part-time video content creators to help the people. More than 1 Million+ views. | | | | | | | | | |
| **HONOR & AWARDS** | | | | | | |
| * **Ranked 242** among 25000+ coders **globally** in Codechef august long challenge 2021. | | | | | | |
| * **1st Marketing head** of Rotaract Club of TIET. | | | | | | |
| * Got **1st position in District** in class 12th- **Awarded by District Magistrate.** * Led most college projects and managed up to **7-member teams** | | | | | | |
| **CERTIFICATIONS** | | | | | | |
| Getting started with AI on jetson nano | | | Nvidia | | | [link](https://courses.nvidia.com/certificates/60de781bc6584e8db56c6e4fcdf778f6/) |
| Fundamental of Accelerated Computing with Cuda Python | | | Nvidia | | | [link](https://courses.nvidia.com/certificates/b1cf2e3fa52c48efa3aae7b189105589/) |
| Google cloud digital leader certification | | | Udemy | | | [link](https://ude.my/UC-14847d26-b14b-469d-8fa5-6c198436b1b2) |
| Problem Solving (Intermediate) | | | HackerRank | | | [link](https://www.hackerrank.com/certificates/55af60d4b3d7) |
| Python | | | HackerRank | | | [link](https://www.hackerrank.com/certificates/5289b30f0c23) |
| Learn Ethical Hacking from Scratch by Zaid Sabih | | | Udemy | | | [link](https://www.udemy.com/certificate/UC-0583c731-cda1-48c5-b7ec-525c90aadf11/) |