Abhay Kumar

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EDUCATION

- **Chandigarh University**   **2020 - 2024**

  Bachelor of Engineering in Computer Science and Engineering (**CGPA** – 7.8/10.0)   *Mohali, Punjab*

- **MP & EV ENGLISH MEDIUM SCHOOL GAJUWAKA**   **2017 - 2019**

  Central Board of Secondary Examination -12th (**Percentage**: 71.00%)   *Vizag, Andhra Pradesh*

- **DAV PUBLIC SCHOOL BHATGAON**   **2016 - 2017**

  Central Board of Secondary Examination –10th   *Bhatgaon, Chhattisgarh*

EXPERIENCE

Software Engineer | GMware Private Limited   June 2024 – Present

- Developed and optimized web scraping scripts in Python and JavaScript to extract data from major marketplaces like Uber, Walmart, Walgreens, and Instacart.
- Bypassed CAPTCHA challenges and ad-blockers using Bright Data, ensuring smooth and uninterrupted data retrieval.
- Designed and managed API interactions with Postman, AWS, and GitLab, streamlining large-scale data extraction.
- Implemented API-based data extraction to improve efficiency and reduce reliance on direct web scraping.
- Processed and restructured extracted data using specialized scripts for better organization and usability.

Software Developer Intern | Persistent System   June 2023 – October 2023

- **Developed and implemented** a Fingerprint Analysis and Criminal Tracking System to enhance criminal investigations.
- **Taught Data Science** languages and frameworks, including Python, SQL, Pandas, NumPy, Matplotlib, and Machine Learning libraries.
- **Designed and delivered lessons** on database management using both SQL and NoSQL databases to strengthen students' technical knowledge.
- **Conducted code reviews** and provided **constructive feedback** to students, assisting them in debugging and improving their code quality.
- **Tech Stack:** Python, SQL, MySQL, Beautiful Soup, Selenium, Orange.

Inter - Research | SISTMR Australia   July 2022 – Oct 2022

- Provided **clear explanations and examples** in **Cyber Security**, simplifying complex concepts.
- Maintained a **progress report** for regular discussions with the supervisor.
- Conducted **code reviews**, offering **constructive feedback** and assisting in **debugging**.
- **Tech Stack:** Research, Cyber Security, Data Analysis.

SKILLS AND INTERESTS

- **Languages**: C++, C, SQL, Python.
- **Technologies and Libraries**: HTML, CSS, MongoDB, MySQL, Django, API Testing, Linux, Git, GitHub, Postman, Beautiful Soup.
- **Relevant Courses:** Data Structures, Algorithms, OOPS, DBMS, Operating System, Networking, Data Science, Machine Learning, AI Tools – Gemini, ChatGPT, etc.
- **Areas of Interest**: C++ Developer, IOT Developer, Data Scientist, Data Engineering, Dev-Ops.

PROJECTS

Pong Game [GitHub](#)

- Developed a **classic Pong game in C++ using the Ray-lib graphics library**, ensuring smooth performance and responsive gameplay.
- Designed **visually appealing game elements** with dynamic colors, animations, and an intuitive user interface.
- Implemented **AI-controlled paddle behavior**, enhancing the competitive aspect and demonstrating problem-solving skills in game development.

Real Time Chat Web App [GitHub](#)

- Built a **real-time chat application** enabling instant text communication between users.
- Optimized for **efficiency and ease of use**, making it suitable for online discussions and e-commerce interactions.
- Utilized **Python, XAMPP Server, MySQL, and JavaScript** for seamless backend and frontend integration.

Anti Sleep Alarm for Drive [GitHub](#)

- Developed an **AI-powered driver alert system** that detects drowsiness and triggers an alarm to prevent accidents.
- Engineered an **automated eye-tracking system** using sensors to detect closed eyes for a specific duration.
- Implemented using **Arduino UNO, C++, C, and various sensors**, making it applicable in other alert-based scenarios.

QT-Notepad Application [GitHub](#)

- Developed a **feature-rich text editor** with essential functions like file creation, opening, saving, and editing.
- Designed an **intuitive UI** using **Q-Main Window** and **Q-TextEdit** for smooth text manipulation.
- Integrated **file handling operations** with **Q-File, Q-File Dialog, and Q-Text Stream**, ensuring reliable read/write functionality.
- Added **clipboard support (Cut, Copy, Paste) and undo/redo actions**, improving usability and efficiency.

ACHIEVEMENTS

- Leet Code 100 Days Badge 2024 [LeetCode](#)
- Solved 300+ Problems Solved on Coding Ninja & Leet code
- Gold Medal at Coding Treasure Hunt Conducted by CSE Final Year Department C.U

CERTIFICATION

- AWS Cloud Technical Essentials [Coursera](#)
- Ethical Hacking: System Hacking [Coursera](#)