

Abhisek Kumar Singh

Linkedin: <https://www.linkedin.com/in/abhisekkumarsingh/>
Github: github.com/Denver04

Email: abhisekkumarsingh021@gmail.com

Mobile: +91-8875209080

Experience

- HSBC India** Pune, Maharastra
Software Engineer July 2024 - Present
 - Developed automation solutions in **Python** leveraging **Pandas** to refactor and optimize legacy codebases. Built dynamic tools to analyze, identify, and auto-modify pre-existing code based on evolving business requirements, **reducing manual development effort** and **improving execution efficiency**, while ensuring scalability and long-term maintainability.
 - Implemented an **SMS and Email notification system** (MDP) by consuming **Ingress APIs** for message delivery from HUB to DPS and **log all outbound messages/emails** into newly created log files for tracking and audit purposes.
 - Integrated with **Transport-C API** to automate bulk **SMS/Email notifications** and simultaneously **update customer account status to 'Active' post batch processing**, ensuring seamless synchronization between communication and account lifecycle events.
 - Contributed to end-to-end backend development by designing and implementing **RESTful APIs**, developing scalable business logic, **writing comprehensive unit tests**, and providing deployment support. Gained hands-on experience in enterprise-grade application development, **CI/CD pipelines**, and production delivery workflows.
- Edge N Roots** Remote
Full Stack Developer (Intern) May 2023 - April 2024
 - Designed and developed intuitive **user interfaces** and reusable components, effectively addressing complex design challenges. Built a high-performance **SEO-optimized** website using Next.js, JavaScript, and Tailwind CSS, enhancing user experience and scalability. Worked closely with the development team to merge contributions, ensuring **seamless integration and code quality**.
- Alecado Systems** Remote
Frontend Developer (Intern) May 2022 - June 2022
 - Collaborated in a two-member team to build an **NFT website** using React.js and JavaScript, achieving a **high SEO score**.

Education

- Army Institute of Technology** Pune, Maharastra
Bachelor of Engineering - Computer Engineering; GPA: 8.50 09/2020 - 05/2024
Courses: Object Oriented Programming, Operating Systems, Data Structures, Analysis Of Algorithms

Skills

- Languages:** C++, JAVA, OOP, JavaScript, TypeScript, Python, HTML, SQL
- Frameworks/Libraries:** ReactJs, NextJs, Redux, ExpressJs, React Native, Spring-Boot
- Tools:** JIRA, Jenkins, Material-UI, Bootstrap, Git, Github

Projects

- Context Aware Chatbot:** Developed CACBOT.AI, an advanced Retrieval-Augmented Generation (RAG) system integrating Pinecone Vector Database with open-source Large Language Models (LLMs). Designed and implemented the complete architecture using React.js, Node.js, and TypeScript, leveraging Context API for state management and scalable API orchestration. Built a robust document ingestion and embedding pipeline for semantic search, enabling intelligent query resolution through website-integrated chat systems to enhance customer support and self-service efficiency. (April 2024)
- AgriCure (Solving for India Hackathon):** Contributed significantly to the Google x AMD Solving India Hackathon 2023 by designing and developing the complete frontend and backend architecture for a crop disease detection platform. Implemented a one-class SVM model achieving 89.25% precision, later optimized with YOLOv8 and transfer learning to improve precision to 94.35%. Leveraged a modern tech stack including React.js, Django, Node.js, and TensorFlow to deliver an end-to-end scalable solution for farmers. (May 2023)
- Needles:** Engineered a responsive social platform integrating the Unsplash API to enable dynamic profile exploration and high-performance image browsing with seamless grid-to-list view transitions. Optimized frontend rendering and SEO, achieving a score of 92 on Lighthouse. Built with Next.js, JavaScript, and CSS, ensuring cross-device responsiveness, efficient API consumption, and enhanced user experience. (July 2023)

Achievements and certifications

- Qualified for the Regionals Finals of GFG Solving for India Hackathon - May, 2023
- Python Essential Training (LinkedIn Learning) - Sep, 2024
- Advanced ReactJs of Meta (Coursera) - July, 2023