

Abhisek Kumar Singh

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Experience

- HSBC India** Pune, Maharastra
Software Engineer July 2024 - Present
 - Developed automation solutions using Python and Pandas to optimize legacy codebases. Designed tools to identify and modify pre-existing code based on dynamic business requirements, significantly reducing manual development efforts and improving code efficiency and maintainability.
 - Automated update and enhancement processes for legacy systems, allowing seamless integration of business logic changes with minimal developer intervention, thereby accelerating delivery timelines and reducing human error.
 - Built RESTful APIs to facilitate end-to-end system integration and seamless communication between frontend and backend modules. Ensured high performance, scalability and secure data transactions in all backend services.
 - Contributed to full-cycle backend development, including API design, business logic implementation, unit testing and deployment support, gaining hands-on experience in enterprise application development and delivery.
- 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 into the main repository, 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 an SEO score of 82. Contributed effectively to project success through seamless teamwork, maintaining code quality and alignment with business goals.

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, JavaScript, Python
- Frameworks:** HTML, CSS, ReactJs, TypeScript, NextJs, Redux, NodeJs, Spring-Boot, MySQL, MongoDB
- Tools:** JIRA, Jenkins, Material-UI, Bootstrap, Git, Github
- Tech Skills:** Web Development, UI/UX, Backend Developer, DSA, OOP, System Design

Projects

- Context Aware Chatbot:** CACBOT.AI represents an advanced implementation of Retrieval Augmented Generation (RAG) utilizing Pinecone (VectorDB) and open-source Large Language Models (LLMs). It facilitates the ability to respond to various queries based on the user-provided documents. (April 2024)
- AgriCure (Solving for India Hackathon):** I made substantial contributions to our group project for the Google x AMD 2023 Solving India Hackathon, where I was responsible for designing and developing both the frontend and backend architecture. Our project provided a solution for farmers to detect crop diseases, initially using a one-class SVM model (89. 25% precision), which was later optimized with YOLOv8, and classification was performed using transfer learning (94. 35% precision). The tech stack included React.js, Django, Node.js, and TensorFlow. (May 2023)
- Needles:** Developed a social platform leveraging the Unsplash API, enabling seamless profile exploration and dynamic image browsing with smooth transitions between grid and list views. The platform is fully responsive across devices and optimized for performance, achieving an SEO score of 92. Built using Next.js, JavaScript, Unsplash API, and CSS. (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