

SAHIL KUMAR

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Skills

Languages: C/C++, Java, Python, JavaScript, TypeScript, SQL

Technologies & Tools: Amazon AWS, Docker, VIM Editor, Machine Learning, Computer Networks, Git/GitHub, Linux

Backend Development: Golang, ExpressJS, NodeJS

Frontend Development: ReactJS, NextJS, Tailwind CSS, HTML

Databases: PostgreSQL, MongoDB, NeonDB

Work Experience

BlueStock Fintech

July 2024 - Aug 2024

Full Stack Developer

- Designed a responsive frontend with **React.js** and **Tailwind CSS**, achieving **95%** loading speeds in under **2 seconds** and over **80%** engagement from **500** active users, while integrating **RESTful API** endpoints for a **30%** improvement in load times.
- Developed the backend using **Django** to provide Initial Public Offering services to over **1,000** users and ensured efficient data management with **PostgreSQL** for secure record-keeping of over **5,000** IPO records.
- Integrated secure and scalable data handling practices, enhancing overall performance and user experience.
- Tech Stacks: JavaScript, ReactJS, Django, PostgreSQL, Postman

KoiReader Technologies

Jan 2023 - June 2024

Python Developer

- Trained a machine learning model with Python, OpenCV, and LabelMe, achieving **95%** accuracy on over **1000** images.
- Implemented a high-performance video processing pipeline with OpenCV and PyQt5, extracting over **400** frames per second from **1,000** videos daily.
- Created a Bash script to automate frame extraction, streamlining workflow and reducing processing time by **50%**.
- Tech Stacks: python, pyqt5, labelme, lxml, OpenCV, OS, bash

Technical Projects

Zcnum | **Next.js**, **Tailwind CSS**, **PostgreSQL**, **Prisma** | **GitHub**

- Developed a **Jira-like** project management app with Next.js and Tailwind CSS, supporting **500** concurrent users and managing over **10,000** records using **Clerk authentication** and **Prisma ORM**.
- Created an interactive admin **dashboard** for real-time task tracking across **100+** active projects, featuring **CRUD** functionality and updates in under **2 seconds**.

Meety | **Node.js**, **JavaScript**, **HTML**, **CSS**, **WebRTC**, **WebSocket** | **Live**

- Built a scalable **backend** for real-time video and voice calls, supporting up to **50 users** simultaneously.
- Streamlined access with a **6-digit** verification code for quick user entry.
- Integrated collaborative **whiteboard**, **screen sharing**, and **chat** features, supporting small groups and team meetings effectively with **fast screen sharing** and **instant chat** capabilities, achieving over **95% uptime**.

Achievements

- Solved **400+** DSA questions, ranked in the top **15%**, and earned 18 badges on LeetCode | **LeetCode Profile**
- Published a Research Paper on the Role of Artificial Intelligence in Generating Video on IEEE | **Paper**
- Secured Global Rank **668** out of 18,679 participants in **Leetcode Weekly Contest 366**
- Achieved AIR **631** in Meta HackerCup Round 1
- Awarded the **Best Geek** of the Section Award at Chandigarh University
- Contributed to 3 **open source** repositories on Hacktoberfest and **merged 10** pull requests
- Secured a **top 5** position in SERB INAE HACKATHON in AI-ML Theme at Jadavpur University
- Secured Runner-Up position at the **A1-LaunchPad Hackathon**

Education

Chandigarh University

Aug 2021 - Jun 2025

B.E. in Computer Science and Engineering

CGPA: 8.0/10

Relevant Coursework: OOPS, DBMS, Data Structures and Algorithms, Operating Systems, Computer Networks.