

# SAHIL BARAK

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[PORTFOLIO](#) | [GITHUB](#) | [LEETCODE](#)

## ABOUT ME

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A passionate **Full-Stack Developer** with a strong foundation in **Java, JavaScript, React, Node.js, Next.js, and PostgreSQL**. I hold a **B.Tech in Computer Science (2023)** and have hands-on experience in building scalable web applications. I have a solid grasp of **Data Structures and Algorithms (DSA)** and have solved **400+ problems on LeetCode** using **Java**, strengthening my problem-solving abilities. My expertise includes developing **full-stack applications** with modern frameworks, implementing **secure authentication**, and managing **databases using Prisma and MongoDB**. I am eager to contribute my skills in a dynamic environment and continuously learn new technologies to build efficient and user-friendly applications.

## EDUCATION

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### PDM UNIVERSITY

Bachelor of Technology

Bahadurgarh, Haryana

Aug 2019 - May 2023

- Major in Computer Science and Engineering
- Cumulative GPA: 7.31/10.0
- Skills : Java, Data Structures, Operating Systems, Algorithms, Networking

## PROJECTS

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### MOX FINANCE APPLICATION [@GITHUB](#) [@VIEW LIVE PROJECT](#)

**TECH STACK USED** - NEXT.JS, HONO JS, CLERK, ZOD, DRIZZLE ORM

- **Comprehensive Financial Management** - Track income, expenses, and manage multiple bank account seamlessly.
- **Interactive Analytics & reports** - Gain insights into spending habits with visual graphs and detailed reports.
- **Modern UI with Dark/Light Mode** - A user-friendly interface with an intuitive theme switcher for better accessibility.

### MOXSH AI ASSISTANT LANGGRAPH LANGCHAIN [@GITHUB](#) [@VIEW LIVE PROJECT](#)

**TECH STACK USED** – NEXT JS, TYPESCRIPT, CONVEX, CLERK, IBM WXTOLS

- Built a **real-time AI chat agent** using **Next.js 15, LangChain, and Claude 3.5** with tool-based response orchestration.
- Integrated **Clerk auth, Convex DB, and IBM WxFlows** for multi-source tool execution (YouTube, Google Books, etc.).
- **Optimized performance** with prompt caching, 4096-token context, and custom streaming for fast AI responses.

### NEXT JS SCHOOL MANAGEMENT APPLICATION [@GITHUB](#)

**TECH STACK USED** - REACT JS, PRISMA, POSTGRESQL, DOCKER

- **Comprehensive School Data Management** – Stores and organizes data for students, teachers, parents, and expenses.
- **Modern Tech Stack & Deployment** - Built with **Next.js, Prisma, PostgreSQL, and Docker** for scalability and efficiency.
- **Secure Authentication & Cloud Integration** – Implements **Clerk** for authentication and **Cloudinary** for media storage to enhance functionality.

## SKILLS

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**Programming Language:** Java, Javascript, Typescript, HTML/CSS

**Frameworks and Tools:** React, Next JS, Express, Node, Git, Tailwind CSS, Clerk, Payment Integrations

**Databases** – MySQL, MongoDB

## CERTIFICATIONS & EXTRACURRICULAR ACTIVITIES

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- Secured **AIR in GATE 2024 - 291**
- **Google** UX Design Professional Certificate
- **Accenture**(United Kingdom) Developer Certificate
- Contributed in **Google summer of Code 2024**