Abhishek Kumar

📞 7004318997 ✉ ak7004318@gmail.com 🔗 LinkedIn ⭘ GitHub 🌐 Portfolio

Education

Sister Nivedita University	**Sep 2022 – Jul 2024**
*Master of Computer Applications (**MCA**)	(CGPA of 7.4/10)*	*Kolkata, West Bengal*
Karim City College	**Aug 2018 – Nov 2021**
*Bachelor of Computer Applications (**BCA**)	(CGPA of 6.1/10)*	*Jamshedpur, Jharkhand*
Sant Nandlal Smriti Vidya Mandir	**Apr 2017 – May 2018**
Class XII - 60.5%	*Ghatshila, Jharkhand*
Sant Nandlal Smriti Vidya Mandir	**Apr 2015 – May 2016**
Class X - 62.70%	*Ghatshila, Jharkhand*

Projects

CrimeWatch App | Next.js, TypeScript, Prisma, Tailwind CSS, Google Gemini AI, Shadcn UI | GitHub

- Developed a full-stack platform where users reported crimes **100% anonymously**, leading to better **community safety**.
- Integrated **Google Gemini AI** to generate crime descriptions, making the reporting process easier.
- Designed a mobile-friendly UI with **Tailwind CSS** & **Shadcn UI**, tested on 10+ devices for consistent user experience.
- Implemented role-based auth via **NextAuth**, securing data across **2 user roles**.
- Built a scalable and high-performance backend using **Prisma ORM** and **NeonDB**.

DevSpace (Full Stack) | Node.js, Express.js, MongoDB, Socket.io, Passport.js, Bootstrap | GitHub | **Live**

- Created a social media web app with real-time messaging for up to 50 users using **Socket.io**.
- Applied **EJS**-based server-side rendering with **MVC** architecture to keep the code clean and improve performance.
- Optimized **MongoDB** database schema for users, posts, and follows to improve query performance.
- Engineered secure user login & registration system using **Passport.js**, with **98%** login success rate.
- Configured **Babel** and **Webpack** for build optimization to improve loading performance.

Cryptocurrency Tracker | HTML5, CSS3, JavaScript, Binance API, WebSocket Protocol | GitHub | **Live**

- Produced a real-time cryptocurrency tracker fetching live data for **12+ cryptocurrencies** using **Binance WebSocket API** for instant updates.
- Leveraged **WebSocket** technology to enable sub-second price updates, eliminating the need for manual refresh.
- Devised an **auto-reconnection system** (5 retries with 3-second intervals) to maintain stable data flow during network issues.
- Crafted a fully responsive UI with **Bootstrap 5** that adapts seamlessly across all devices for a smooth user experience.
- Reduced unnecessary API calls through efficient **WebSocket** management to boost performance.

Technical Skills

Programming Languages: C++, JavaScript, HTML, CSS
Frameworks & Libraries: React.js, Socket.io, Node.js, Express.js, Bootstrap, Tailwind CSS
Databases: MongoDB, SQL
Concepts: OOPs, RESTful API
Version Control: Git, GitHub

Achievements/Certifications

- Introduction to Prompt Engineering for Generative AI - LinkedIn
- Ranked 3-Star in **C++** on **HackerRank**.
- Secured 2 Stars in **HackerRank**'s **Problem Solving** domain (focus on algorithms and data structures).
- Certified in **React JS** from Scaler, covering components, props, hooks, and state management.
- Certified in **Python** from Scaler, covering core concepts, data structures, and hands-on projects.
- Certified in **Java** from Scaler with focus on **OOP**, data structures, and backend basics.