

# VINAYAK KUMAR SINGH

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## Objective

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To secure a role that allows me to leverage my expertise in full-stack web development, utilizing modern frameworks and cloud services to build scalable and cost-efficient solutions. With a strong background in developing user-friendly interfaces, robust backend systems, and serverless architectures, I aim to contribute to innovative projects that drive digital transformation. My passion for delivering impactful solutions, coupled with effective communication and collaboration skills, will enable me to actively participate in the development process and create value for the organization.

## Education

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<b>Vellore Institute of Technology</b> <i>Master of Computer Applications</i>	<b>2023 - 2025</b> 7.72/10 CGPA
<b>Atal Bihari Vajpayee Vishwavidyalaya</b> <i>Bachelor of Computer Applications</i>	<b>2020 - 2023</b> 7.96/10 CGPA

## Skills

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**Programming Languages:** JavaScript, TypeScript, Python  
**Front-end Technologies:** React, Next.js, Material UI, HTML, CSS  
**Back-end Technologies:** Node.js, Express.js, Next.js API Routes  
**Databases:** MongoDB, DynamoDB  
**Cloud Services:** AWS (Lambda, API Gateway, DynamoDB)  
**Developer Tools:** Git, Postman, VS Code  
**Soft Skills:** Collaboration, Problem-Solving, Communication

## Projects

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- GeniusBot: AI-Powered Assistance with PDF Insight** [View](#)
- Developed an interactive **chatbot application** using **Streamlit**, **OpenAI's GPT-3.5-turbo language model**, and **PyPDF2** for **PDF text extraction**, enabling users to ask **context-based questions** on uploaded PDFs and **general queries**.
  - Utilized **LangChain** for communication with **large language models**, implemented **state management** with Streamlit's session state, developed with **Python**, and leveraged **Git** for version control and collaboration.
- Serverless Voting Application for Programming Languages** [Source Code](#) — [View](#)
- Developed a **cloud-native voting application** leveraging **serverless architecture** and various **AWS services** for scalability and cost-efficiency.
  - Implemented the **frontend** using **React**, enabling users to view programming languages, access details, and cast votes through an interactive UI.
  - Utilized **AWS Lambda** functions for backend logic, **API Gateway** for API management, and **DynamoDB** for storing application data in a **NoSQL** database.
- MediBook: Medical Appointment Scheduler with Health History** [Source Code](#) — [View](#)
- Designed and developed a **medical appointment management platform** with **CRUD functionality** for efficient appointment scheduling and management.
  - Implemented **secure doctor-patient consultations** using role-based access control and encryption techniques to protect patient data confidentiality.
  - Utilized **MySQL** with **robust database techniques**, including **normalized schema design** and **stored procedures**, to ensure **secure storage** and **reliable retrieval** of patient records, promoting data privacy and accessibility.

## Achievements

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- Actively contributed to **open-source projects** on GitHub, with **over 1300+ commits**, demonstrating a strong commitment to collaborative software development and continuous learning.
- Led the Technical Team at **AVR Club VIT**, actively spearheading the development and maintenance of the club's website to enhance its functionality and user experience.