

VIGNESH K

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Goal-oriented BCA graduate with a deep interest in both frontend and backend technologies. I'm eager to apply and further enhance my skills in artificial intelligence. Keen to work on diverse and challenging projects, I aim to contribute effectively while continuously learning and growing in the field of technology.

SKILLS

Technical Skills: Java, Python, HTML, CSS, JavaScript, MySQL, PostgreSQL, MongoDB, NumPy, Pandas, Matplotlib, Seaborn, Jupyter Notebook, AWS Services.

Soft Skills: Effective communication, Critical thinking, Analytical problem-solving, Quick adaptability, Efficient time management

EXPERIENCE

Cloud Engineer Intern - CogniMinds, Bangalore

02/2025 - 04/2025

- Worked with 10+ AWS services, including EC2, S3, RDS, VPC, and more.
- Built a full-stack Attendance Management System for 10+ users with integrated frontend, backend, and database.
- Accelerated server uptime by 25% by implementing autoscaling and monitoring strategies for high-traffic handling.

Data Science with Python Intern - Smarted Innovations, Bangalore

04/2024 - 06/2024

- Developed a movie recommendation system using content-based filtering with Python and Pandas.
- Analysed movie metadata (genre, cast, director, etc.) to suggest similar movies, covering over 500+ titles.
- Implemented cosine similarity for matching, achieving over 90% accuracy in generating personalized recommendations.
- Built an interactive recommendation function that reduced search time by 70% and increased user engagement.

PROJECTS

Real-Time IoT Data Monitoring using MQTT and WebSockets on AWS Cloud

- Developed a real-time IoT data monitoring system using AWS IoT Core, MQTT, and WebSockets.
- Used a Python MQTT client to simulate sensor data and publish messages to AWS securely.
- Built a WebSocket server to receive MQTT data and broadcast it to browser clients in real time.
- Designed a responsive HTML + JavaScript web interface hosted on AWS S3 for live data visualization.

Attendance Management System

- Developed a complete Attendance Management System with both frontend and backend integration.
- Hosted the frontend on AWS S3 and deployed the backend on EC2 for real-time data access.
- Implemented Auto Scaling to handle peak login times and optimize server performance.
- Ensured secure and scalable architecture using IAM roles, security groups, and AWS best practices.

CERTIFICATIONS

Web Development – IBM [Credential](#)

Programming in Java - NPTEL [Credential](#)

Introduction to Artificial Intelligence - IBM [Credential](#)

Problem Solving and Controls - IBM [Credential](#)

EDUCATION

Bachelor's in Computer Applications (BCA) - Dr. NSAM First Grade College • 9.6 CGPA (up to 5th Sem) 07/2022 - 07/2025

Pre-University (PU) - Seshadripuram Pre-University College • 87.17% 07/2020 - 07/2022

Secondary School Leaving Certificate (SSLC) - Government Boys High School • 64.48% 07/2018 – 07/2020