Indresh **Vakkala**

FULL STACK DEVELOPER

Lig-1-180 APHB Colony B-camop Kurnool, Andhra Pradesh, Indian, 518002

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Objective

Full-Stack Developer and Data Analyst with expertise in AI/ML, backend development, and cloud infrastructure. Experienced in designing scalable web applications, building robust APIs, and integrating machine learning models into production. Skilled in data-driven decision-making, leveraging advanced analytics, and optimizing workflows. Passionate about problem-solving, automation, and enhancing user experiences through technology. Proficient in Python, Java, React, SQL, Docker, Kubernetes, and AWS, with a keen interest in cutting-edge AI advancements and big data solutions.

Education

Virginia Tech   *Falls Church, VA, USA*

M.ENG IN COMPUTER SCIENCE   *Aug. 2023 - Dec 2024*

- Pursued coursework in Full Stack Development, AI/ML, and Software Engineering.
- GPA: **3.60 / 4.00**

Sathyabama University   *Chennai, India*

B.TECH IN COMPUTER SCIENCE AND ENGINEERING   *June 2019 - Aug. 2023*

- Graduated with a strong focus on Data Science, Full-Stack Development, and AI.
- CGPA: **8.70 / 10.00**

Work Experience

OrgFour   *Virginia, USA*

FULL STACK DEVELOPER   *Aug. 2024 - Dec. 2024*

- Developed and deployed scalable web applications using React.js, Node.js, and Springboot, ensuring seamless user experience and backend efficiency.
- Designed and optimized RESTful APIs and GraphQL endpoints to enable smooth data exchange between frontend and backend services.
- Integrated authentication and authorization mechanisms using OAuth and JWT for secure user access and session management.
- Implemented state management solutions like Redux and React Context API to enhance application performance and maintainability.
- Utilized AWS services (EC2, S3, Lambda, RDS) to deploy and manage cloud-based infrastructure, improving application scalability and availability.
- Developed database schemas and optimized SQL and NoSQL databases (PostgreSQL, MongoDB) for high-performance queries and efficient data storage.
- Built CI/CD pipelines using GitHub Actions and Docker to automate testing, deployment, and monitoring of applications in a cloud-native environment.

Publications & Awards

2024   **1st Place**, VTHacks Hackathon   *Virginia, USA*

Publication Real-time Detection of Lung Cancer Using CNN, *ViTECoN 2023, Vellore, India*.
DOI: 10.1109/ViTECoN58111.2023.10157316

Technical Skills & Personal Skills

PROGRAMMING LANGUAGES

- Proficient: Python, Java, SQL, JavaScript, ReactJs, , HTML/CSS
- Familiar: TypeScript, Postgresql, HTML/CSS

FRAMEWORKS & LIBRARIES

- Backend: Spring Boot, Flask, Django, Node.js
- Frontend: React.js, Next.js, Tailwind CSS
- ML & AI: TensorFlow, PyTorch, Scikit-learn, OpenCV, Hugging Face

CLOUD & DEVOPS

- AWS (EC2, S3, Lambda, RDS, API Gateway, SQS, DynamoDB)
- Docker, Kubernetes, Terraform, CI/CD (GitHub Actions, Jenkins)
- Monitoring: Prometheus, Grafana, SigNoz

- SQL: PostgreSQL, MySQL, SQLite
- NoSQL: MongoDB, Redis, Firebase

Personal Skills

- Strong problem-solving and analytical skills
- Quick learner and adaptable to new technologies
- Excellent teamwork and leadership experience
- Effective communication and presentation skills
- Strategic thinking and data-driven decision-making for business growth
- Proven ability to lead cross-functional teams in product development and marketing campaigns
- Strong project management skills with expertise in Agile methodologies
- Ability to analyze market trends and translate insights into actionable business strategies
- Expertise in stakeholder management, negotiations, and team mentorship

Personal Details

Name	Indresh Vakkala
Father's Name	V.T. Satish Kumar
Date of Birth	02-08-2002
Gender	Male
Nationality	Indian
Languages Known	English, Tamil, Telugu, Hindi, Portuguese
Communication Address	Lig/1/180 APHB Colony, B Camp,
	Kurnool, Andhra Pradesh, India, 518002

Place: Kurnool

Date: _____   **Signature of Candidate**