VIVEK MANOJKUMAR NAIR

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ABOUT ME

Driven Computer Science Engineering graduate with expertise in web development, software engineering, data engineering, and cybersecurity. Passionate about continuous learning and skilled in crafting innovative solutions as a full-stack developer. With hands-on experience in cybersecurity, including vulnerability assessments and penetration testing, I am proficient in data engineering, with expertise in building and optimizing ETL pipelines, integrating diverse datasets, and efficiently managing big data workflows. I aim to leverage my skills to deliver impactful solutions and drive positive change in the technology sector.

SKILLS

Technical Skills	Full-Stack Web Development, Python, Django, Java, React.js, Node.js, Tailwind, Github Actions, SQL Server, MongoDB, PySpark, Hadoop, SSIS, ETL Pipelines, Big Data, Vulnerability Assessment and Penetration Testing.
Soft Skills	Communicative, Collaboration, Leadership, Analytical, Flexible, Innovative, Oratory, Critical Thinking, Problem Solving.
Software Tools	Microsoft Office, ChatGPT, Microsoft Azure Cloud, Databricks, PowerBI, Azure Data Factory, Azure Synapse, Hadoop File System, Google Cloud Platform, Spark, Kali Linux OS, Wireshark, BurpSuite, GitHub.

EXPERIENCE

Associate 1 - Software Engineer — Aug 2024 - Present
UST — *Trivandrum, Kerala*

- Developed and optimized ETL pipelines as a Data Engineer, utilizing PySpark, Hadoop, and SQL Server for efficient data integration and transformation.
- Enhanced big data workflows on Azure Cloud, utilizing Databricks and PowerBI for data visualization and advanced analytics, leading to improved reporting capabilities.
- Streamlined data manipulation across multiple SQL databases, applying SQL optimization techniques to support faster decision-making in cross-functional teams.

Freelance Full Stack Web Developer — Feb 2023 - Jun 2024
Vosnet Technologies — *Kerala, India*

- Developed and optimized end-to-end web platforms using React, Next.js, Node.js, and PostgreSQL, enhancing user experience, scalability, and site performance while ensuring SEO best practices.
- Managed full-stack development across diverse client projects, including front-end and back-end tasks, API integrations, and ongoing maintenance for high-quality web solutions.

Full Stack Web Developer Intern — Jun 2022 - Oct 2022
aiRender Technology — *Bangalore, Karnataka*

- Worked on Shell Scripting and Janus WebRTC server.
- Developed an understanding of the operational flow of WebRTC packets in an in-browser video calling system.

Volunteer Leadership Experience
Amal Jyothi College of Engineering

- **Website Lead** - TEDxAJCE — Mar 2021 - Feb 2024
- **Technical and Website Lead** - Google Developer Students Club — Oct 2022 - May 2024

- **Website Developer** - IEEE SB AJCE   Jan 2023 - Aug 2024

PROJECTS

Zomato Delivery Operation Analysis = Developed an **end-to-end ETL pipeline** for optimizing food delivery operations at Zomato, leveraging technologies like **Azure Data Factory**, **Azure SQL Database**, **PySpark**, **Spark SQL**, and **Azure Databricks**. Extracted, transformed, and visualized data to uncover business insights, focusing on improving **delivery times**, **driver performance**, and **customer satisfaction** across various cities in India. Key insights included the impact of **traffic density**, **driver age**, **order times**, and **weather conditions** on delivery efficiency.

SAHI: A learning platform for the speech and hearing impaired, developed with **Django** and **OpenEdx Tutor**. It uses **sign language** for course delivery and features a **scalable architecture**, advanced **user interface design**, and **multimedia support**. The platform ensures accessible education through **interactive features** for enhanced learning experiences.

Wolle E-Commerce: Developed an **E-Commerce application** for the clothing company Joyed, leveraging **Vite** for **rapid development** and **React** for a dynamic user interface. Integrated **Razorpay SDK** for seamless payment processing. The platform encompasses a comprehensive set of e-commerce features and is optimized for performance, delivering **enhanced load times** and accelerated API responses to ensure a superior and efficient user experience.

Nirvana: Developed an anonymous **Decentralized Drug Reporting System** with the Kerala Excise Department to enable discreet reporting and incentivize users through **redeemable points**. It includes **location tracking** for prompt responses, a **Next.js** and **Material UI** interface, and secure communication via **REST APIs**. Built on the **Ethereum Blockchain** to ensure secure and transparent reporting.

EDUCATION

Bachelor of Technology in Computer Science and Engineering   2020 - 2024
Amal Jyothi College of Engineering (KTU), Kanjirappally, Kerala
CGPA - 9.32

Junior College - Science with Computer Science   2019 - 2020
Vartak College of Science and Technology, Vasai, Mumbai
CGPA - 9.06

AWARDS AND ACHIEVEMENTS

- **3rd Prize** in SemiCode - National Level Coding Competition   *NMIMS, 2022*
- IEEE SB Knockout Hackathon **WINNER**   *FISAT, Thrissur 2022*
- National Anti-Drug Hackathon **WINNER**   *Central University of Kerala, Kasaragod 2023*
- Hack'23 **2nd RUNNER UP**   *KMEA Engineering College, Aluva 2023*
- Hackatly **2nd RUNNER UP**   *College of Engineering, Thalassery 2023*
- IDD National Hackathon **2nd RUNNER UP**   *M.G. University, 2023*
- SDG Hackathon by EDII (**Shortlisted from regional and state level**)   *Ahmedabad, 2023*
- Manager's Honours Awards   *Amal Jyothi College of Engineering, 2024*

CERTIFICATIONS

- NPTEL - Joy of Computing Using Python   *82% (Elite + Silver Medal) (04/2021)*
- CS50P - Introduction to Programming with Python by Harvard University   *(12/2021)*
- HackerRank Java Certification   *(09/2022)*