

VINOTHKUMAR MOHANRAJ

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EDUCATION

Nanyang Technological University, Singapore.

Aug 2024 – Jun 2025*

MSc in Computing (Blockchain Technology), CGPA: 4.1/5.0

Relevant Module: Software Engineering, Distributed System, Blockchain Scalability, Web Programming.

Anna University, India.

Jun 2018 - Jun 2022

Bachelor's (Information Technology), CGPA: 4.2/5.0

Relevant Module: Data Structure, Software Testing, Cloud Computing, Computational Intelligence.

WORK EXPERIENCE

Pints.ai – Software Engineer Intern, Singapore.

Dec2024 – Jan2025

- Developed responsive and visually appealing web interface to ensure optimal user experience.
- Developed high-fidelity mock-ups using Figma and translated them into function designs.
- Implemented CI/CD processes using GitHub workflows, enabling integration and unit testing.

Tata Consultancy Services (TCS) – Javascript Developer, India.

Jul 2022 - Jul 2024

- Designed and implemented PDF generation solutions for an insurance company using JavaScript.
- Utilized TCS's cloud-based Unified Communication Hub (UCH) to streamline PDF design process, ensuring efficient data flow and task automation.
- Streamlined data fetching processes by developing Javascript module, cutting down processing time by 15% and improving output accuracy.
- Reduced processing errors by 20% through unit testing and enhancing end-user satisfaction.
- Optimized performance by fine-tuning JavaScript code to handle large datasets and reduce processing times, enhancing overall efficiency in document creation.

ACADEMIC PROJECT

Unified Smart Contract-Based KYC Solution, Singapore

Dec 2024 - Jan 2025

- Tool Used: React JS, Python, Ethereum, Hyperledger, MetaMask, REST API, RSA.
- Build a Blockchain based KYC ecosystem using Ethereum and Hyperledger to address inefficiencies, enhance trust, and improve operational efficiency in cross-border banking.
- Developed secure, decentralized smart contracts to issue digital KYC IDs, enabling transparent data sharing with advanced encryption protocols (AES, RSA).
- Designed a React.js-based interface to facilitate seamless global customer verification and multi-level validation for secure data updates.

Medical Health Record Sharing Application, India

Mar 2022 - Apr 2022

- Tool Used: React JS, HTML, CSS for Frontend, Ganache, Truffle Framework, Meta-mask for Backend.
- Developed a decentralized platform to securely share medical reports, leverage blockchain technology to enhance patient data accessibility and protection.
- Designed and deployed smart contracts using the Truffle Framework on the Ethereum blockchain with Ganache, enabling secure and transparent medical report sharing.

Covid-19 Testing Management System, India

Apr 2020 - May 2020

- Tool Used: Html, CSS, JavaScript for Frontend and PHP, My SQL for Backend.
- Developed a web-based platform to enable users to easily book COVID-19 test slots online and schedule home testing services.
- Implemented secure user authentication and authorization mechanisms using PHP sessions and MySQL, ensuring protected access to booking features and personal data.
- Optimized database queries and backend logic to efficiently manage high volumes of simultaneous slot bookings, reducing response times by 25%.

ACHIEVEMENTS AND PUBLICATION

- Received "**Best Innovation Award**" for "**Automated Home Security System**" at an interdepartmental project event.
- Published a technical paper titled "Artificial Intelligence in Machines" at conference of ideas and innovation in Ramakrishna College of Engineering.
- Received **Spot Award** from TCS -Award Citation "**Dedication and Commitment**".

CERTIFICATION AND TRAINING

- Certified in **Python programming**.
- Certified in **Full Stack Web-development**.
- Certified in **Microsoft Azure Dev-Ops (AZ900 & AZ400)**.
- Certified in **Data-Science**.

SKILLS

- Core Programming: **C++, Python, Java, Solidity**.
- Frameworks: **React, Nodejs, Next.js, Flask, Express.js, Tailwind CSS, MongoDB, Javascript**.
- Developer Tools: **Git, VS Code, Github Workflows, CI/CD, Remix, Docker**.
- Office Applications Tools: **Microsoft Office (Excel, Word, Power point, Outlook)**.