

# Yash A

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## PROFESSIONAL SUMMARY

Blockchain and Full-Stack Developer with hands-on experience building secure smart contracts, decentralized applications, and production-ready web applications. Specialized in Solidity development, smart contract security, and full-stack Web3 integration. Proven ability to build end-to-end solutions from smart contract architecture to frontend deployment. Strong foundation in both blockchain ecosystems and traditional web development, enabling seamless integration between Web3 and Web2 technologies.

## EDUCATION

<b>SRM Institute of Science and Technology</b> <i>Bachelor of Technology in Computer Science and Engineering (Data Science)</i>	Chennai, Tamil Nadu Aug 2024 – Aug 2028
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## TECHNICAL SKILLS

<b>Blockchain &amp; Web3:</b> Solidity, Smart Contracts, Foundry, Ethereum, Web3.js, DApp Development, Chainlink Oracles
<b>Frontend Development:</b> HTML5, CSS3, JavaScript, React, EJS, Responsive Design
<b>Backend Development:</b> Node.js, Express.js, RESTful APIs, Server-Side Rendering
<b>Databases:</b> MongoDB, PostgreSQL, SQL, Database Design & Optimization
<b>Smart Contract Security:</b> Foundry Testing, Security Auditing, Gas Optimization, Vulnerability Analysis
<b>Blockchain Ecosystems:</b> Ethereum, Polygon, Chainlink (VRF, Price Feeds, CCIP), Layer 2 Solutions
<b>Development Tools:</b> Git, GitHub, Foundry, Hardhat, GitHub Actions CI/CD, Postman
<b>Cloud Platforms:</b> AWS (EC2, S3, Lambda, RDS, DynamoDB), Oracle Cloud Infrastructure (OCI)
<b>Programming Languages:</b> Solidity, JavaScript, Python, Java, SQL, C++
<b>Data Structures &amp; Algorithms:</b> Advanced DSA with Java, Problem Solving, Algorithm Optimization

## PROJECTS

<b>Decentralized Lottery System (Smart Contract)</b> <i>Solidity, Foundry, Chainlink VRF, Ethereum</i>	Jan 2026 <a href="#">GitHub</a>
<ul style="list-style-type: none"><li>Developed provably fair lottery smart contract using Chainlink VRF for verifiable randomness, implementing security best practices for handling user funds and ensuring transparent winner selection</li><li>Built comprehensive test suite with Foundry Forge achieving 95%+ code coverage including unit tests, integration tests, and edge case scenarios for production-ready deployment</li><li>Implemented automated deployment scripts and VRF subscription management with gas-optimized contract architecture reducing transaction costs by 30%</li><li>Integrated event emission for transparency and created detailed documentation for contract interaction and deployment procedures</li></ul>	
<b>FundMe DApp (Decentralized Crowdfunding)</b> <i>Solidity, Foundry, Chainlink Price Feeds, Web3</i>	Jan 2026 <a href="#">GitHub</a>
<ul style="list-style-type: none"><li>Built full-stack decentralized crowdfunding platform with Chainlink price feed integration for real-time USD/ETH conversion ensuring accurate minimum funding requirements</li><li>Implemented owner authorization patterns, custom error handling, and gas-optimized withdrawal functions following industry-standard Solidity best practices</li><li>Established CI/CD pipeline using GitHub Actions with automated testing, gas snapshots, and deployment verification ensuring code quality and performance optimization</li><li>Created modular contract architecture with separation of concerns between funding logic, price feed integration, and withdrawal mechanisms</li></ul>	
<b>Perpetual Abyss - Web Scraping Honeypot</b> <i>Node.js, Express.js, JavaScript, HTML, CSS</i>	Jan 2026 <a href="#">GitHub</a>
<ul style="list-style-type: none"><li>Engineered infinite content generation system that creates realistic but deceptive web content to trap and identify malicious web scraping bots and crawlers</li><li>Implemented dynamic HTML generation using Express.js and EJS templating to serve unique, contextually relevant fake content on each request with randomized structure</li><li>Developed algorithmic content generation logic creating convincing fake product listings, user profiles, and article pages with realistic metadata and cross-references</li><li>Built rate limiting and bot detection mechanisms to identify scraping patterns while maintaining legitimate user experience</li></ul>	

## DEVELOPMENT EXPERIENCE

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<b>Blockchain &amp; Full-Stack Developer</b> <i>Independent Projects</i>	Oct 2025 – Present Remote
<ul style="list-style-type: none"><li>Developed multiple production-ready smart contracts with comprehensive testing achieving high code coverage and security standards for mainnet deployment</li><li>Built full-stack web applications using MERN stack (MongoDB, Express.js, React, Node.js) with RESTful API design and database optimization</li><li>Integrated Web3 functionality into traditional web applications enabling seamless interaction between blockchain and conventional backend systems</li><li>Implemented security-first development practices including input validation, authentication, authorization, and smart contract vulnerability prevention</li><li>Utilized cloud services (AWS, OCI) for application deployment, database hosting, and scalable infrastructure management</li></ul>	

## CERTIFICATIONS

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<b>Chainlink Fundamentals</b> <i>Credential ID: WLQLHJS1N0NW</i>	Cyfrin Updraft Jan 2026
<ul style="list-style-type: none"><li>Mastered decentralized oracles, data feeds, automation, VRF, CCIP, and real-world data integration in smart contracts</li></ul>	
<b>Foundry Fundamentals</b> <i>Credential ID: UWUWR87FH0FL</i>	Cyfrin Updraft Jan 2026
<ul style="list-style-type: none"><li>Specialized in Foundry testing framework, deployment scripting, contract verification, and advanced testing methodologies</li></ul>	
<b>Solidity Smart Contract Development</b> <i>Credential ID: B85FGDL4R1O3</i>	Cyfrin Updraft Jan 2026
<ul style="list-style-type: none"><li>Comprehensive training in smart contract architecture, Solidity fundamentals, security patterns, and production deployment</li></ul>	
<b>Blockchain Basics</b> <i>Credential ID: GAOU35T9NDPP</i>	Cyfrin Updraft Oct 2025
<ul style="list-style-type: none"><li>Foundation in consensus mechanisms, gas optimization, attack vectors, and Layer 2 scaling solutions</li></ul>	
<b>Data Structures &amp; Algorithms (DSA with Java)</b> <i>Credential ID: 688b79d0a352a888230d4a67</i>	Apna College 2025
<ul style="list-style-type: none"><li>Advanced DSA training covering algorithm design, complexity analysis, and problem-solving optimization techniques</li></ul>	
<b>AWS Cloud Practitioner Essentials</b>	Amazon Web Services Dec 2025
<ul style="list-style-type: none"><li>AWS fundamentals including EC2, S3, Lambda, RDS, DynamoDB, cloud architecture, and security best practices</li></ul>	
<b>Oracle Cloud Infrastructure 2025 Certified Data Science Professional</b> <i>Credential ID: 102767083OCI25DSOCP</i>	Oracle Oct 2025
<ul style="list-style-type: none"><li>Data science workflows on OCI including data handling, machine learning, model deployment, and cloud analytics</li></ul>	