

Sindhuja Rajakkani

Toronto, Canada

[Medium](#) [GitHub](#)
sindhuja.tq@gmail.com

[Linkedin](#)
+1 4374270534

Career Synopsis

Experienced MEAN stack and blockchain developer with 3 years of expertise in full-stack web development, specializing in Angular, Node.js, and Express.js. Proficient in creating decentralised applications with a focus on Hyperledger Fabric. Strong analytical and problem-solving skills, effective communicator in cross-functional teams. Adept project leader with a cybersecurity background, driven by a passion for learning and industry trends.

Professional Experience

Cybersecurity Engineer Trainee

Teesside University(England, United Kingdom)

Jan 2022 - May 2022

Project: Spicy-Zeek: Deep Packet Inspection of Security Protocols

- Installed and configured Spicy, Zeek, Wireshark, Docker, and EclipseAnBx IDE to create a virtualized DPI environment for analyzing and recognizing Java security protocols.
- Developed the SpicyZeek parser script for in-depth security protocol analysis.
- Captured and analyzed network traffic and packets using Wireshark and terminal shell commands.
- Integrated and executed AnBx security protocols within EclipseAnBx IDE.

Software Developer (MEAN & Blockchain Developer)

Astra quark Digi Solutions (former Wifin Technologies), Chennai, India *June 2017 - Dec 2020*

Project: Xact

Role: Software Developer (Blockchain Developer)

- Developed chaincode in Golang and integrated it with Node.js API.
- Deployed Blockchain networks using Solo, Kafka, and Raft consensus mechanisms.
- Managed transactions in blocks with Hyperledger Explorer.
- Automated environment build and provisioning using Docker, hosted on Contabo VPS.
- Experienced in taking and restoring Hyperledger Fabric ledger backups.
- Conducted API testing with Postman.
- Created multi-host Hyperledger Fabric blockchain networks.

Project: Epic**Role: Software Developer (Frontend and Blockchain Developer)**

- Developed UI using TypeScript, Angular 8, Bootstrap, media queries, and CSS frameworks.
- Integrated UI with Node.js API and deployed the application on the AWS server.
- Managed NPM modules and extensively used Angular CLI.
- Implemented chaincode in Golang for backend integration.
- Utilized local storage for sensitive user data during page transitions.
- Ensured cross-browser compatibility (IE, Firefox, Safari) on Windows.

Project: Tracewell**Role: Software Developer (Backend and Blockchain Developer)**

- Developed Node.js application components using Express.js.
- Implemented asynchronous programming with promises.
- Managed user authentication and authorization with JWT.
- Integrated chaincode in Golang with Node.js API.
- Wrote aggregation queries in MongoDB and NoSQL.
- Conducted linting and performed one-to-one unit testing of APIs to ensure code quality and functionality.

Project: CSPL**Role: Software Developer (Backend Developer)**

- Developed Node.js applications using Express.js with CRUD operations.
- Implemented user authentication and authorization with JWT and SHA-2 encryption.
- Integrated Node.js applications with the Corda blockchain.
- Developed smart contracts in Kotlin.
- Debugged and refactored software modules as needed.

Technical Skills

Programming Languages	Golang, JavaScript, TypeScript, Python, SAP-ABAP
Technology	Blockchain (Hyperledger), Web3.js, Cybersecurity
Web Technologies	Node JS, Express JS, Angular 8, HTML5, CSS3, JavaScript, Bootstrap, TypeScript, Angular CLI
IDEs	Visual Studio Code, Eclipse
Languages	SQL, NoSQL
Operating systems	Mac OS, Linux - Ubuntu, Windows
Virtualization	Docker
Tool	Wireshark, Postman

Version Control	GIT
Cloud Computing Service	AWS, GCP
Database	MongoDB, CouchDB, MySQL

Scholastic Profile

Jan 2024 - Sep 2024	PG Certificate in Backend and Blockchain Development York University, Canada
Jan 2021 – Jan 2023	M.Sc. - Cyber Security with Advanced Practices Teesside University, United Kingdom
Aug 2013 – Apr 2017	B.Tech - Information Technology Anna University, India

Certifications

- Python
- SAP – ABAP

Publications

Published paper “Privacy Preservation and Accident Detection for Location Sharing” in “**International Journal of Science & Innovative Engineering & Technology (IJSIET)**” Volume 1, May issue 2017.

Published paper “Audit for Data Sharing & Retrieval from Revoked User with Proof Verify” in “**International Journal of Advanced Research Methodology in Engineering & Technology**” Volume 1, May issue 2017.