

SAM PREM KUMAR THALLA

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github.com/sampremm — [portfolio](#) — linkedin.com/in/samprem1/

SKILLS

Languages: Java, JavaScript

Technologies & Tools: Node.js, React.js, Express.js, TailwindCSS, MySQL, MongoDB, Mongoose, PostgreSQL, Git, GitHub, Postman

EDUCATION

B.Tech in Electrical and Electronics Engineering

Jyothishmathi Institute of Technology and Science

July 2018 – Dec 2022 CGPA: 6.56

Diploma in Electrical and Electronics Engineering

Jyothishmathi Institute of Technological and Sciences

June 2016 – June 2018 CGPA: 7.21

PROJECTS

- **Real-Time Location-Sharing Web Application** *Node.js, Express.js, Socket.IO, Leaflet.js* — [REPO Link](#)
 - Engineered a real-time location-sharing application using Express.js and Socket.IO to enhance dynamic user interactions.
 - Developed WebSocket connections for live location updates and integrated Leaflet.js for precise mapping.
 - Crafted an intuitive user interface for real-time map visualization and user tracking.
- **URL Shortener** *HTML, CSS, JavaScript, Node.js, Express.js, MongoDB* — [REPO Link](#)
 - Created a URL shortener that converts long URLs into shorter, manageable links.
 - Implemented redirection from shortened URLs to original long URLs.
 - Optional analytics for tracking the number of clicks.
- **Chess.com** *HTML, CSS, JavaScript, TailwindCSS, Node.js, Express.js* — [REPO Link](#)
 - Developed a Chess.com clone featuring an interactive board and piece movement using HTML, CSS, and JavaScript.
 - Integrated drag-and-drop functionality and real-time game updates using WebSocket.
 - Designed an engaging user interface with TailwindCSS for a seamless gaming experience.
- **Multithreaded Web Server** *Java, Socket Programming, Thread Pooling, Multithreading* — [REPO Link](#)
 - Built robust server applications in Java, focusing on both single-threaded and multithreaded environments.
 - Specialized in socket programming for efficient client-server communication.
 - Utilized thread pooling for effective resource management and improved scalability.

ACHIEVEMENTS

- **Detection and Tracking MPPT Using CSA MPPT**

Published a journal article titled "Detection and Tracking Maximum Power Point of a PV System under Partial Shading Conditions using Cuckoo Search Algorithm (CSA) MPPT" in the International Journal of Research (ISSN: [2236-6124](#)).

Enhanced energy efficiency in photovoltaic systems using CSA for Maximum Power Point Tracking (MPPT). Contributed to advancements in solar energy optimization and algorithmic applications in renewable energy.

CERTIFICATIONS

COURSERA: Data Structures and Backend with Java — Board Infinity — [Link](#)

Completed a comprehensive course on Data Structures and Backend development using Java, gaining expertise in algorithmic problem-solving, backend system design, Spring Boot, and RESTful web services.

COURSERA: HTML, CSS, JavaScript Certification — Johns Hopkins University — [Link](#)

Acquired certification in HTML, CSS, and JavaScript, focusing on web development fundamentals and modern design practices.