SHASHI C. SHIRUPA

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EXPRIENCE

LTIMindtree   Jun 2021 – Jul 2022
Software Engineer   *Hyderabad, India*
- Tech Stack: **Node.js**, **Express.js**, **ReactJS**, **MySQL**, **MongoDB**, **Microservices**
- Implemented asynchronous messaging patterns for a pub/sub system, improving system responsiveness.
- Contributed to web scraping using ReactJS, MySQL, and Express.js, enhancing data retrieval efficiency. Optimized frontend JavaScript for a faster page load speed improvement, providing a superior user experience.
- Architected a microservices system using Node.js and Express.js, leading to faster API responses.
- Utilized NoSQL for MongoDB to boost database performance by 60%, maintained regular backups for data security.

Cognizant   Jan 2021 - May 2021
Software Engineer   *Hyderabad, India*
- Tech Stack: **React**, **Typescript**, **Redux**, **GraphQL**
- Designed and implemented multiple new features for the enterprise-level logistics analytics dashboard.
- Actively contributed to the maintenance of an internal UI library tailored specifically for logistics analytics.
- Developed functionalities in React, and GraphQL to expedite privacy reviews, reducing turnaround times by 30%.

InMovidu Tech   Sept 2020 – Nov 2020
Software Engineer   *Bangalore, India*
- Tech Stack: **React**, **Node.js with Express**, **PostgreSQL**, **Jenkins**, **Docker**
- Worked on the enhancement of an interactive e-learning platform using React and Node.js with Express, significantly boosting user engagement and educational outcomes.
- Managed PostgreSQL databases to ensure scalability and efficient data handling for educational content and user information.
- Engaged in agile methodologies, contributing to all phases of the development cycle and implementing CI/CD with Jenkins and Docker to optimize deployment processes.

Linkfields Innovations (Pty) Ltd   Oct 2018 – Aug 2020
Software Engineer   *Hyderabad, India*
- Tech Stack: **Java**, **Spring Boot**, **AWS (Amazon Web Services)**, **TypeScript**
- Developed RESTful APIs and backend services using Java and Spring Boot, implementing business logic and data management features.
- Assisted in the configuration and deployment of applications on cloud platforms such as AWS (Amazon Web Services), gaining hands-on experience with services like EC2 and S3.
- Contributed to the implementation of responsive user interfaces using Angular framework and TypeScript, ensuring compatibility across various devices and browsers.

PROJECTS

California Wildfire Prediction | *Python, pandas, numpy, scikit-learn, LightGBM*   ⦿ **Github**
- Used LightGBM model on cleaned, analyzed, and feature-engineered California wildfire dataset to predict hotspots.

Travel Companion | *React.js, React-Router, JavaScript, HTML, CSS, API*   ⦿ **Github**
- Built a travel companion website with real-time destination info providing an efficient travel planning experience.

Gossip Protocol | *Erlang, Distributed Computing*   ⦿ **Github**
- Simulated gossip and push-sum convergence algorithms in Erlang across scalable network topologies (up to 10k nodes), analyzing performance characteristics.

P2P-file-sharing | *Java, TCP, P2P*   ⦿ **Github**
- Developed a P2P file-sharing application using TCP, implementing peer connections, handshakes, and efficient file chunk transfer mechanisms.

Buy and Sell Multiple Stocks | *C++, Greedy, BruteForce, Dynamic Programming*   ⦿ **Github**
- Built a C++ solution for maximizing stock trading profits with constraints. Employed multiple algorithms and complexity analysis to determine the optimal approach

EDUCATION

University of Florida   **GPA: 3.77 / 4.00**
Master of Science in Computer Science   *Gainesville, FL*
- **Relevant Coursework:** Analysis Of Algorithms, Machine Learning, Distributed Operating Systems, Computer Networks

Vardhaman College of Engineering   **GPA: 8.75 / 10.00**
Bachelor of Technology in Computer Science   *Hyderabad, India*
- **Relevant Coursework:** Operating Systems, Web Development, Database Management Systems, Software Engineering