

SHASHI C. SHIRUPA

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EXPERIENCE

Larsen & Turbo Infotech Mindtree

Jun 2021 – Jul 2022

Software Engineer

- Tech Stack: **Node.js, Express.js, ReactJS, MongoDB**
- 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.
- Implemented asynchronous messaging patterns for a pub/sub system, improving system responsiveness.
- Utilized NoSQL for MongoDB to boost database **performance by 60%**, maintained regular backups for data security.

Cognizant

Jan 2021 - May 2021

Software Engineer

- Tech Stack: **React, Javascript, Redux**
- 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 to expedite privacy reviews, **reducing turnaround times by 30%**.

InMovidu Tech

Sept 2020 – Nov 2020

Software Engineer

- Tech Stack: **React, Node.js, 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.
- Implemented agile methodologies throughout the development cycle and utilized **CI/CD with Jenkins and Docker** for optimized deployment processes.

Linkfields Innovations (Pty) Ltd

Oct 2018 – Aug 2020

Software Engineer

- 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 React 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: **3.80 / 4.00**

Master of Science in Computer Science

Gainesville, FL

- **Relevant Coursework:** Analysis Of Algorithms, Machine Learning, Distributed Operating Systems, Computer Networks