Varshith Pabbisetty

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EDUCATION

San Jose State University (SJSU), San Jose, CA, U.S.A | Master of Science in Software Engineering

Aug 2023 - May 2025

Relevant Coursework: Software Systems Engineering, Distributed Systems, Data Mining, Machine Learning, Design and Analysis of Algorithms.

Vellore Institute of Technology (VIT) Vellore, Tamil Nadu, India

Jul 2017 - Jun 2021

Bachelor of Technology in Computer Science & Engineering

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Operating Systems, Networks, High Performance Computing, Artificial Intelligence.

SKILLS

Languages & Frameworks: JavaScript, Java, Python, C, C++, React.Js, Node.Js, Express.js, Spring Boot, HTML, CSS, Boost, Material-UI Tools & Paradigms: Git, Github, VSCode, APM, REST APIs, Microservices, CUDA, OpenMP, Multi-threading, Agile Methodologies, Mocha, Chai.js, Kubernetes, Chrono

Databases and Technologies: MySQL, PostgreSQL, MongoDB, AWS, Firebase, Pickle

PROFESSIONAL EXPERIENCE

Software Engineer

Jio Platforms Limited

June 2021 - July 2023 | Navi Mumbai, India

- Led backend development within an Agile team of 55 for the 'Re-imagined Procurement Platform', implementing RESTful APIs in Node.js and Express.js. Secured an A+ performance rating.
- Enhanced application performance by 20% using Redis for caching and Kafka for real time data processing.
- Crafted comprehensive unit tests using **Mocha** and **Chai.js**, achieving over 90% code coverage and participated in code reviews to significantly enhance code quality.
- Managed CI/CD with Kubernetes for orchestration, APM for monitoring, and Azure for Task Board and deployments.
- Optimized **MongoDB** and **MySQL** databases, implementing **aggregations** and **indexing** to reduce record fetch times to under 100ms, handling thousands of records efficiently.

Software Engineering Intern Ken42 EdTech Pvt. Ltd.

Mar 2021 - Jun 2021 | Bengaluru, India

- Engineered 5 intuitive frontend UI components for a digital classroom platform, streamlining enrollments, course
 material access, attendance tracking, and student grading processes.
- Used React.js and Material UI to build the component library with over 140 components and integrated Storybook for documentation.
- Revamped web functionalities and CMS for course materials, integrated Salesforce for robust student data handling, and debugged React.js code, enhancing management efficiency for over 1,500 student profiles.

PROJECTS

Parallelization of Minmax Algorithm for Tic-Tac-Toe

- Developed an optimized Minmax algorithm for tic-tac-toe, achieving a 40% reduction in computation time by parallelizing the game tree search using **OpenMP**.
- Implemented in C++, enhancing decision-making efficiency and supporting advanced game strategies for AI opponents.
- Tech: C++, OpenMP, Boost, Chrono, C

Movie Theater Club App: https://github.com/gopinathsjsu/team-project-wizard

- Implemented JWT Auth using MongoDB as the database for 3 user types, enhancing security for members, non-members and staff.
- Created an admin dashboard for theater, show time and seat management.
- Deployed on AWS with Auto Scaling across 4 EC2 instances and NGINX for load balancing.
- Tech: Typescript, Node.Js, React.Js, HTML, CSS, MongoDB, AWS, Mantine

Custom MVCC Implementation: https://github.com/VarshithPabb1setty/CMPE-273---Implementation-of-MVCC-using-Pickle

- Enabled over 100 concurrent data operations with a MVCC system, utilizing Python and FastAPI.
- Built a data structure to guarantee data isolation and consistency and ZMQs messaging queue for communication.
- Used **Python's Pickle** module as a data store.
- Tech: Python, ZMQ, Pickle, Fast API, Hashlib