

Vinod Polireddy

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IIT Bhubaneswar

Computer Science and Engineering

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Education

Year	Degree/Examination	University/Board	%/CGPA
2022	Computer Science and Engineering	Indian Institute of Technology Bhubaneswar	8.32/10
2018	Intermediate (12 th standard)	TS Board of Intermediate Education	98.6%
2016	Secondary School Certificate (10 th standard)	Board of Secondary Education, A.P	10/10

Experience - Software Engineer, Optum

June 2022 - Present

Preprocessor Application

Front-End Development

- Developed an application using React and .NET Core to efficiently process data from over 25 health plans.
- Implemented a generic processing system to standardize and store data in a SQL database, facilitating the seamless integration of new health plans into the system
- Handled diverse file types including Full and Activity files, supporting formats such as Fixed Width, Delimited, and 834, ensuring compatibility with a wide range of health plan data.
- Implemented a parser to parse transformations stored in the database specific to each health plan, reducing code duplication and improving maintainability.
- Optimized data processing by leveraging precomputed results, achieving a 30% reduction in processing time and enhancing overall system performance by 25%

Projects

Options Trading Automation Platform

May 2024 - Present

- Developed an automated trading platform using the MERN stack (MongoDB, Express, React, Node.js), streamlining rule-based trading strategies and reducing manual trading time by 80%.
- Integrated APIs with 3 leading Indian brokers (Zerodha, Upstox, AngelOne), enabling seamless account management and achieving a 99.9% success rate for order placements.
- Implemented secure authentication using JWT for user sessions and leveraged OAuth2 to obtain authorization tokens from brokers, enhancing security.
- Implemented real-time market updates with Socket.io, delivering up-to-the-second price data with an average latency of less than 300ms.
- Adopted Event-Driven Architecture to create a loosely coupled and scalable service architecture, ensuring flexibility and ease of maintenance.
- Connected to top charting platforms like TradingView to trigger strategy execution based on real-time alerts.
- Deployed real-time notifications via Telegram, allowing users to avoid monitoring the application directly and reducing monitoring time by 70%.

Technical Skills

Programming Languages : C++, C, JavaScript, TypeScript.

Web Technologies : HTML, CSS, Bootstrap

Frameworks & Libraries : Node.js, Express, Mongoose, ReactJS, Redux Toolkit, Socket.io.

Databases & Others : MongoDB, Microsoft SQL Server, Git, AWS Lambda, AWS EC2, REST APIs

Scholastic Achievements

- Secured an All India Rank of 2019 in JEE-Advanced'18.
- Secured an All India Rank of 2853 in JEE-Mains'18.