

B Vishwanath

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PROFILE

Senior Software Engineer with 11 years of experience at Invesco. Expertise in **React.js, Next.js, Python (Flask), Node.js, and AWS**, with a track record of delivering projects on time and exceeding client expectations.

SKILLS

Frontend: React.js, Next.js, Redux, Zustand, Material-UI, AG Grid, Ant Design, Bootstrap

Backend: Node.js, Express.js, Python (Flask), Next.js, RESTful APIs

React State Tools: Redux, Zustand

Databases: PostgreSQL, AWS Aurora, MongoDB, AWS DynamoDB, Solr

DevOps & Cloud: AWS (EKS, Lambda, S3, RDS), Docker, Kubernetes

Tools & Other: Git, CI/CD, Jest, SonarQube, Sentry, Bitbucket, Github, Airflow

EXPERIENCE

Invesco

June 2023 – Present

Senior Software Engineer

Project 1 : Invesco Vision

Hyderabad

- Developed and maintained "Invesco Vision," a highly complex web application designed for portfolio managers to analyze and optimize asset performance. The application delivers detailed insights into the risk and return values of various assets, including stocks, bonds, and mutual funds. It incorporates sophisticated tools like Efficient Frontier, Historical Model, Factor Analysis .. etc to aid in fund optimization
- Managed and resolved challenging issues in the complex state architecture, debugging and fixing bugs without introducing regressions or breaking functionality.
- **Built modular, reusable UI components** using Material-UI (MUI) for responsive, consistent interface design, accelerating front-end development and reducing component duplication
- **Managed complex application state** with Redux and Redux Thunk middleware, centralizing asynchronous data flow and improving state predictability
- **Created and maintained Flask-based microservices** for backend API logic, leveraging Flask's lightweight Python framework to build scalable, efficient services.
- Employed Swagger for effective API testing, ensuring reliability and scalability.

Project 2 : Model Portfolio

- Integrated Azure AD Single Sign-On (SSO) into the Spring Boot app, eliminating static credentials and cutting average login time by ~50% while removing manual password management overhead
- Modernized the front end by migrating static Thymeleaf pages to a React-based UI, reducing page load times by ~40% and enabling dynamic fund-data dashboards, which improved UI responsiveness and accelerated feature development
- Developed a custom React dynamic-table component to replace Excel file upload inputs for fund-model entry, eliminating formatting errors (input error rate down ~90%) and accelerating data ingestion by ~60%

Project 3 : Indexing Data Distribution Application

- Designed and developed a scalable web application to facilitate indexing data distribution across multiple clients.
- Developed the **entire application from scratch**. Used React.js as frontend and python flask in backend
- **Implemented a dynamic interactive dashboard** with AG Grid (a high-performance React data grid library for managing tabular data, including inline validation and editing to improve data accuracy and user efficiency
- **Integrated job scheduling capabilities** with an internal automation tool (UAC), automating routine indexing tasks and reducing manual intervention, thereby streamlining operational workflows.

Citius Tech

July 2021 – June 2023

Technical Analyst

Project : Custom Forms

Hyderabad, India

- Led the development of CustomForms, a medical domain-based form builder designed to function like Google Forms, featuring custom widgets and seamless AWS integrations. The application leveraged GraphQL APIs,
- Elasticsearch, and DynamoDB for efficient data management and retrieval.

- Delivered feature-rich widgets for custom form creation, enhancing usability and flexibility.
- Utilized GraphQL API using AWS AppSync, ensuring efficient data retrieval and management.
- Improved data retrieval speed by optimizing queries with Elasticsearch and DynamoDB.
- Enhanced user experience with a well-structured UI using Ant Design components.

Project 2 : Automated Time Tracking for Employee Projects

- Led the development of an automated time tracking system to streamline logging efforts for employees working across multiple projects. Integrated Jira API and PPM Pro Tool with AWS-based infrastructure to ensure real-time data synchronization, error handling, and scalability.
- **Automated 90%** of the time tracking process, reducing manual intervention.
- **Automated the PPM and JIRA ETL jobs** on the AWS cross account to run it on the airflow

Infosys

May 2014 – July 2021

Senior Systems Engineer

Hyderabad

Project : Enrichment Rules Engine

- Developed the entire rules engine in the python from scratch . created UI using the react js to upload the mortgage rules to process the OCR data json
- The new application helped to **reduce months of effort** . creating the rules is transferred to the end user instead of the developer . the application has been used in other projects to onboard the rules quickly

Project : Loan Prediction Analysis

- removed the old legacy table code using the jquery and **replaced the entire functionality with the NG prime components** that has enabled the application to run smoothly
- Revamped the entire UI and made it smooth
- Implemented caching on the Node.js backend to improve API response speed and maintained the node API endpoints

Project : Contact History Explorer

- Developed a local search engine similar to **Google for searching contacts and transcripts** using the solr .Results were returned based on a matching score, and the application was optimized for fast performance, returning results within **microseconds**.
- Developed custom filters and sorting options to allow users to refine their search results based on specific criteria such as date, type of contact, or keywords.

Project : Command Line utility

- Created a command line utility that can be invoked from the web, enabling automation of certain processes
- Developed the utility using Python and Bash scripting

Project : Sentiment analysis on the Voice transcripts

- Developed a Sentiment Analysis model for transcripts data to track dissatisfied calls.
- Utilized ML tools to develop the model.
- Developed the UI on Angular to display top dissatisfied calls from users.
- Implemented the model using Python and popular libraries like NLTK and Scikit-learn
- Preprocessed the transcripts data using techniques like tokenization, stemming and stop

CERTIFICATIONS / ACHIEVEMENTS

- Won the STAR programmer certificate in infosys for the exception contribution to the project
 - AWS Certified Developer – Associate
- https://www.credly.com/badges/ca3f9d66-d247-4b31-a637-17283850b45c/public_url

EDUCATION

JayaPrakash Narayana College of Engineering JNTU, Hyderabad
Bachelor of Technology, Computer Science
GPA 74%

June 2009 – June 2013
Hyderabad, India