SHRAVAN KUMAR KARNATI

Tampa,FL,33613 | karnati1@usf.edu | 8135859635 | LinkedIn | Website | GitHub

Education

University of South Florida, Tampa, FL **Jan '19 – Dec '20**
Master of Science in Computer Science GPA: 3.5 / 4.0
GITAM University, Visakhapatnam, India **Jun '14 – Apr '18**
Bachelor of Technology in Computer Science & Engineering GPA: 3.4 / 4.0

Skills

- **Programming Languages:** Python, JavaScript, TypeScript, C++, HTML5, CSS3, jQuery.
- **Frameworks and Libraries:** React, React Hooks, Angular, Redux, React, Next.js, Gatsby.js, Node.js, Express, Apollo GraphQL, SCSS, Bootstrap, Material UI, Chakra UI, Styled Components, CSS-in-JS, Jest, Enzyme, Figma, Balsamiq, Webpack, Babel, NPM, Pandas, NumPy, Scikit Learn, Matplotlib, scikit-learn, TensorFlow, Keras, Selenium, Beautiful Soup, Seaborn, SEO, REST API, AJAX.
- **Databases and Tools:** MySQL, PostgreSQL, MongoDB, DynamoDB, Redis, Cloud Firestore, AWS, GCP, Mongoose, TypeORM, Big Data-Hadoop, HDFS, Map Reduce, Apache Pig, Git, GitHub, Bitbucket, Netlify, Heroku, Digital Ocean, Docker, Dokku.

Experience

Big Data Developer – Aspire Vision Tech, Hyderabad, India **May '17 – Aug '17**
- Implemented a distributed database system using Hadoop 2.0.0 which overcomes the SPOF and thus allowing parallel analysis of large data by multiple engineers.
- Querying databases with optimized HiveQL queries, analysis of structured data using MapReduce algorithms, extracting information using HDFS and Apache HIVE, and tuning the database enhancing the performance by 20%.
- Coordinate with other teams to help them make use of the Hadoop cluster and to easily integrate their results in the design we developed.

Projects

Coterie – Full Stack (PERN) Reddit Clone **LIVE**
- Written in TypeScript, Next.js on the frontend with Node.js – Express.js – Apollo GraphQL backend. Used Next.js Router for routing, SCSS and CSS-in-JS for styling and UI.
- Leveraged Next.js built-in server-side rendering feature for Home Page, and Apollo GraphQL Client in Memory Cache for Centralized State Management, Next.js Router for Routing, SCSS and Styled Components for Styling.
- Implemented Session Based Management for authentication with Redis for session tracking.

Travel Log – Full Stack (MERN) Location Logger **LIVE**
- Written in TypeScript, React.js on the Frontend with Node.js – Express – REST API backend. Used MapBox GL JS for displaying maps and visualizing geo data.
- Implemented using React Context API for local state management, Json Web Tokens for authentication and MongoDB for user data management.

Regale – Recipe Search Web Application **LIVE**
- Written in JavaScript, React for UI, Redux for Centralized State Management, React Router for Routing, SCSS and Styled Components for Styling.
- Implemented Saved List for saving recipes and Cart for grouping all the ingredients of selected recipes using Redux Persist and browser's Local Storage.

Credit Card Fraud Detection **CODE**
- Developed Logistic Regression and Neural Network models to classify, to the highest possible degree of Sensitivity and Specificity, credit card fraud from a highly imbalanced dataset.
- Implemented both Under sampling and Oversampling techniques on the dataset to normalize the number of frauds (originally 492 frauds - 0.172%) with the number of non-fraud transactions.