SAGAR PANDAV

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US WORK AUTHORIZATION : POST-COMPLETION OPT

EDUCATION

NEW YORK UNIVERSITY　　　　　　　　　　　　　　　　　　　　　　　　　　　　New York, NY
Master of Computer Science (MSCS)　　　　　　　　　　　　　　　　　　　　　　　Aug 2021 - May 2023

PUNE INSTITUTE OF COMPUTER TECHNOLOGY　　　　　　　　　　　　　　Pune, Maharashtra, India
Bachelor of Engineering in Computer Science (BECS)　　　　　　　　　　　　　　　Jul 2014 - Jul 2018

SKILLS

Lang: Java, JavaScript, Python (Pandas, NumPy), Golang, TypeScript
Stack: ReactJS, React Native, Spring Framework, Hibernate, JPA, Node.js, Express, Mongoose, Flask, Django, GraphQL, Dataloader; HTML5, CSS, jQuery, SASS,Knockout.js, Bootstrap, Material UI, Redux, PWA, Workbox, Responsive Web Design, AJAX, d3.js
Cloud: Amazon Web Services (AWS) - CloudFormation, EC2, Lambda, S3, Lex, DynamoDB, SES, RDS, CodeCommit, SageMaker; Docker, Kubernetes, Jenkins, Google Cloud Platform (GCP), Heroku, Firebase, Continuous Integration, MySQL, Redis, PostgreSQL, SQL, MongoDB, Firestore, OpenSearch, ElasticSearch, Kibana
Tools: Git, IntelliJ, GitLab, Bitbucket, Jenkins, Kibana, Apache Tomcat, Agile, Scrum

PROFESSIONAL EXPERIENCE

NEW YORK UNIVERSITY | *Python, Javascript, PsychoJS, Numpy, Pandas, ReactJS, Greenplum, SQL, Flask, OAuth2*　　New York, NY
API Developer | Data Engineer | Javascript Developer | Graduate Assistant　　　　　　　Sep 2021 – May 2023
- Spearheaded API ecosystem deployment at New York University, integrating Python Flask and ReactJS to ensure seamless integration, efficient data flow, and generate 100+ requests through the NYU API/Data Portal
- Maintained and managed over 15 API endpoints in a Python Flask and ReactJS environment at New York University, prioritizing robust OAuth2 security measures via Shibboleth for secure access and sensitive data protection
- Expedited the development process by establishing a local development environment for Python Flask and ReactJS, resulting in a remarkable 70% increase in developer efficiency and productivity
- Swiftly addressed and resolved critical production issues within a 24-hour time-frame, employing a meticulous approach to minimize downtime and ensure uninterrupted operations, maintaining optimal system performance
- Streamlined frontend interface by integrating AntD and ReactJS, creating visual hierarchy, utilizing design systems, and optimizing UI elements to deliver an intuitive and engaging user experience, resulting in a 25% reduction in bounce rate
- Implemented meticulous design practices, avoiding prop drilling and separating concerns, resulting in clean, maintainable code across frontend and backend systems, and a 35% reduction in UI-related bugs
- Ensured 100% accuracy in database migration from Snowflake to MySQL through meticulous modeling and execution

MEDIAOCEAN | *Java, Spring, Hibernate, JPA, ReactJS, KnockoutJS, Microservices, SQL, Jenkins*　　　　New York, NY
Software Development Intern　　　　　　　　　　　　　　　　　　　　　　　　Jun 2022 – Aug 2022
- Revamped the L2 engineer dashboard by introducing real-time ticket tracking, leading to a 40% reduction in average resolution time and a 15% improvement in customer satisfaction
- Demonstrated effective communication by orchestrating daily stand-up meetings and weekly retrospectives, leading to a 30% reduction in miscommunication-related errors
- Integrated existing technologies into a new React-based dashboard, streamlining processes and reducing redundancy by 30% for the development team
- Spearheaded cross-functional collaboration to resolve technical debt, migrate to ReactJS, and implement new technologies, resulting in a 30% reduction in development time and an 80% increase in user satisfaction

MEDIAOCEAN | *Java, Spring, Hibernate, JPA, Talend, Greenplum, ReactJS, KnockoutJS, Kibana, Jenkins, Docker, JIRA*　　Pune, India
Software Engineer　　　　　　　　　　　　　　　　　　　　　　　　　　　　Jun 2018 – Jun 2021
- Delivered enterprise-grade software using REST/JSON APIs, SQL/NoSQL databases, Agile, DevOps, CI/CD, Docker/Kubernetes, and TDD. Completed 30+ sprints with CICD for timely high-quality solutions
- Deployed innovative features using Express, Spring, and React, leading to a 20% boost in customer satisfaction metrics
- Achieved an 85% Java/JS TDD coverage for front-end and back-end solutions, ensuring code quality and minimizing post-deployment issues
- Fostered a collaborative team environment through regular one-on-one meetings, open communication channels, and mentorship opportunities, resulting in a 90% satisfaction rate among team members
- Engineered and dispatched a seamless data migration project, transferring 800,000 rows through the implementation of a Java Cron job on production servers, resulting in minimal disruption and ensuring a smooth data transition
- Identified areas for improvement, optimized code quality, achieved 95% Java/JS TDD coverage, minimized bugs
- Coordinated inter-team integration of microservices and databases (relational Oracle SQL, non-relational MongoDB, and Greenplum), managing end-to-end ETL process for data extraction, transformation, and loading from diverse sources with 100% accuracy, ensuring precise flow and timely transformations within a 6-hour interval

PROJECTS

Spotify Meta | *Spotify API, ReactJS, ReactNative, Heroku |* *Live Site* | *Github*   Jul 2023
- Developed a web app for visualizing personalized Spotify data Provided insights into top artists, top tracks, recently played tracks, and detailed audio information
- Cleaned and massaged track data for effective data visualization, and visualized with animations
- Implemented ReactJS for frontend development, creating an intuitive and interactive user interface
- Enabled users to create and save new playlists of recommended tracks based on existing playlists
- Hosted the application on Heroku, ensuring accessibility and seamless deployment
- Made the live site available for users to directly experience the functionality and features of the application

Institutional Trade Simulator | *Python, MetaApi, Jupyter, Numpy, Pandas, TradingView, Oanda, MT4, SQLite, MongoDB |* *Github* Feb 2022
- Developed an automated trading system in Python using MetaApi, Pandas, NumPy, and Pycaret to optimize trading long and short positions in currency pairs
- Utilized Pycaret for creating custom machine learning models to predict pairs in uptrend and downtrend, improving trading decision-making
- Implemented Pandas and NumPy for calculating Kelter Bands and other crucial data points at runtime, enhancing the accuracy of trading strategies
- Integrated TradingView, Oanda, and MT4 to access real-time market data and execute trades seamlessly
- Employed SQLite and MongoDB databases to store and retrieve trading data for performance tracking and analysis

Munch Pocket | *Python, Lambda, SES, DynamoDb, ElasticSearch, ReactJS, Amplify, Lex, API Gateway, MaterialUI |* *Github*   Feb 2022
- Led a team of 4 developers, ensuring timely delivery of milestones and weekly deliverables
- Optimized SDLC by creating a CICD pipeline using AWS Lambda, SES, DynamoDB, ElasticSearch, and API Gateway
- Leveraged ElasticSearch for efficient search functionality Utilized DynamoDB as a NoSQL database for scalable and performant data storage
- Implemented ReactJS with Amplify and MaterialUI for frontend development Integrated Amazon Lex for natural language understanding and conversation

Twitter Clone | *Golang, RAFT, ReactJS |* *Github*   Dec 2022
- Developed a Twitter clone web app with HTML/CSS frontend for an intuitive user interface
- Utilized Golang for backend logic and data processing
- Implemented the RAFT consensus algorithm for fault-tolerance and secure user authentication and authorization
- Integrated gRPC and Protos for reliable client-server communication
- Built features like tweeting, following/unfollowing, liking/retweeting, and real-time updates using WebSockets

COVID-19 Food Insecurity Visualizer| *Observable, d3.js, Javascript |* *Live Site*   Mar 2021
- Extracted and transformed data from various sources, effectively funneling into a single source of truth
- Provided insights about Food Insecurity during COVID-19 times through data visualizations
- Leveraged d3.js to create effective and interactive visualizations including histograms, maps and bar charts

Organic Store | *NodeJS, Express, Graphql, Dataloader, MongoDB, Firebase, ReactJS, Redux, Heroku*   Mar 2021
- Adapted to a fast development environment, delivering in all aspects including database design, contract design, UI design, development, and deployment
- Thrived in fast sprint cycles of 1 week, ensuring timely delivery of features and meeting project milestones
- Leveraged NodeJS with Express and GraphQL for a robust and scalable backend Utilized Dataloader for optimized data loading and caching
- Implemented MongoDB as the database system for seamless data storage and retrieval
- Integrated Firebase for user authentication and authorization
- Employed ReactJS with Redux for frontend development, creating an intuitive and interactive user interface
- Demonstrated versatility in UI design, leveraging Material UI and responsive design principles
- Deployed the application on Heroku, ensuring accessibility and availability to users

Portfolio | *ReactJS, MaterialUI, Bootstrap, Github Pages |* *Live Site* | *Github*   Dec 2022
- Developed a portfolio website using ReactJS, MaterialUI, and Bootstrap for an intuitive and visually appealing user interface
- Hosted the portfolio on Github Pages for easy accessibility

Fashion E-Commerce | *Heroku, ReactJS, Bootstrap |* *Live Site* | *Github*   Mar 2021
- Implemented efficient state management practices, optimizing page load time by 30% and driving a significant 20% increase in site traffic and a 15% boost in conversion rates
- Developed a seamless e-commerce site in React, leveraging efficient state management practices with Redux, resulting in improved performance and enhanced user experience
- Integrated React libraries, including React Router and Material UI, to create intuitive navigation workflows
- This initiative led to a remarkable 25% decrease in bounce rate and an average session duration of over 3 minutes
- Utilized React libraries effectively to showcase clear and concise navigation workflows, ensuring an optimal user experience and maximizing user engagement