

SAGAR PANDAV

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EDUCATION

NEW YORK UNIVERSITY

Master of Computer Science (MCS)

Cumulative GPA: 3.7/4.0;

New York, NY

Aug 2021 - May 2023

PUNE INSTITUTE OF COMPUTER TECHNOLOGY

Bachelor of Engineering in Computer Science (BECS)

Cumulative GPA: 3.4/4.0;

Pune, Maharashtra, India

Jul 2014 - Jul 2018

SKILLS

Lang: Java, JavaScript, Python (Pandas, NumPy), Golang, TypeScript

Stack: ReactJS, React Native, Spring, 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, 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

WORK EXPERIENCE

MEDIAOCEAN

Software Development Intern

New York, NY

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
- Technologies Used : Java, Spring, Hibernate, JPA, ReactJS, KnockoutJS, Microservices, SQL, Jenkins

NEW YORK UNIVERSITY

API Developer | Data Engineer | Javascript Developer | Graduate Assistant

New York, NY

Sep 2021 – May 2023

- 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
- 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
- Integrated core site with external providers including Pavlovia, Gitlab and Prolific through best design OAuth2 practices and streamlined workflow leading to 25% quicker tasks
- Technologies Used : Python, Javascript, PsychoJS, Numpy, Pandas, ReactJS, Greenplum, SQL, Flask, OAuth2

MEDIAOCEAN

Software Engineer

Pune, India

Jun 2018 – Jun 2021

- Delivered enterprise-grade software using REST/JSON APIs, SQL/NoSQL databases, Agile, DevOps, CI/CD, Docker/Kubernetes, and TDD and completed 30+ sprints with CICD for timely high-quality solutions
- Achieved an 85% Java/JS TDD coverage for front-end and back-end solutions, ensuring code quality and minimizing post-deployment issues
- 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
- 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
- Technologies Used : Java, Spring, Hibernate, JPA, Talend, Greenplum, ReactJS, KnockoutJS, Kibana, Jenkins, Docker, JIRA

PERSONAL AND ACADEMIC PROJECTS

- Spotify Meta** | Spotify API, ReactJS, ReactNative, Heroku | [Demo](#) | [Github](#) Feb 2017
- 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 transformed raw data, essential to intuitive and interactive visualization
- Institutional Trade Simulator** | Python, MetaApi, Numpy, Pandas, TradingView, Oanda, MongoDB | [Github](#) Jan 2016
- Designed an automatic trading bot in Python, leveraging live forex data through MetaAPI and Oanda, to execute trades on MT4 platform with 0% user intervention
 - Implemented Kelter Bands and multiple metrics using Pandas, Numpy and Pycaret to develop a model to recommend direction of market before placing trades
- Munch Pocket** | Spotify API, ReactJS, ReactNative, Heroku | [Github](#) Feb 2017
- Optimized SDLC by creating a CICD pipeline using AWS Lambda, SES, DynamoDB, ElasticSearch, and API Gateway
 - Led a team of 4 developers, ensuring timely delivery of milestones and weekly deliverables leveraging ElasticSearch for efficient search functionality Utilized DynamoDB as a NoSQL database for scalable and performant data storage
- Twitter Clone** | Spotify API, ReactJS, ReactNative, Heroku | [Demo](#) | [Github](#) Feb 2017
- Implemented the RAFT consensus algorithm for fault-tolerance and secure user authentication and authorization to employ a full scale Twitter with tweeting, following/unfollowing, liking/retweeting, and real-time updates with gRPC
- COVID-19 Food Insecurity Visualizer** | Observable, d3.js, Javascript | [Live Site](#) Jan 2016
- Effectively transformed raw bulk data of 30+ GB, funneling into a single source of truth and leveraged d3.js to create stunning, intuitive and interactive animations, converting data to information
- Organic Store** | NodeJS, Express, GraphQL, Dataloader, MongoDB, Firebase, ReactJS, Redux, Heroku Feb 2017
- Leveraged NodeJS with Express and GraphQL for a robust and scalable backend Utilized Dataloader for optimized data loading and caching, thriving in fast sprint cycles of 1 week
 - Demonstrated versatility in UI design, leveraging Material UI and responsive design principles and deployed the application on Heroku, ensuring accessibility and availability to users
- Portfolio** | ReactJS, MaterialUI, Bootstrap, Github Pages | [Live Site](#) | [Github](#) Jan 2016
- Developed a portfolio website using ReactJS, MaterialUI, and Bootstrap for an intuitive and visually appealing user interface
- Fashion E-Commerce** | Python, MetaApi, Numpy, Pandas, TradingView, Oanda, MongoDB | [Github](#) Jan 2016
- 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