

# 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, Angular, NgRx

**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

### ARDENT PRIVACY

Software Developer (Full Time 40 hrs per week)

New York, NY

Sep 2023 – Current

- Led development of a new product using Angular and GraphQL
- Simplified the development environment for the team by configuring and setting up scripts and virtual machines (VM) for local setups, resulting in 20x faster testing
- Coordinated with developers and the design team to establish a unified user experience (UX) theme, delivering a simplified UX
- Transitioned to new technologies, enabling valuable demos in the first sprint
- Enabled targeted data collection from public APIs using JavaScript scripts, achieving 100% relevant data at speeds 10x faster than manual methods.

### MEDIAOCEAN

Software Developer (Full Time 40 hrs per week)

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 | Javascript Developer | Graduate Assistant (Part-Time 20 hrs per week, 40 hrs in holidays)

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 Pavlovian, 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

- 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 changes 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](#) May 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 transformed raw data, essential to intuitive and interactive visualization

**Institutional Trade Simulator** | Python, MetaApi, Numpy, Pandas, TradingView, Oanda, MongoDB | [Github](#) Jan 2023

- Designed an automatic trading bot in Python, leveraging live forex data through MetaAPI and Oanda, to execute trades on the MT4 platform with 0% user intervention
- Implemented Kelter Bands and multiple metrics using Pandas, Numpy, and Pycaret to develop a model to recommend the direction of the market before placing trades

**Munch Pocket** | Spotify API, ReactJS, ReactNative, Heroku | [Github](#) Feb 2022

- 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 2022

- 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 2021

- 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 2018

- 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 2019

- 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 2019

- 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