

# Vedang Barhate

## Full Stack Developer

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### SUMMARY

- Full stack developer around 2+ years of domain experience in Designing, Development, Deployment and maintenance of web apps based on Spring framework in Java and Django - Python platforms.
- Expertise in creating web interfaces with HTML, CSS, JavaScript.
- Experience of Programming using Object Oriented Programming (OOPs concept) and software development life cycle (SDLC), architecting scalable platforms, object-oriented programming, database design and agile methodologies.
- Professional Web Apps development experience using Django and Flask inclusive of experience in UI using JavaScript, Reactjs and Redux.
- Experience in using frameworks and tools like Django, Flask, Django REST, Hibernate ORM, and Spring.
- Experience in developing Web-Applications implement Model View Template architecture using Python and Django web application framework.
- Experienced with Django and Flask REST API frameworks to create robust and production quality APIs. Used HTTP and Transport Layer Security (TLS) encryption to keep the APIs' security.
- Developed consumer-based features and applications using Reactjs, Python, Django, Flask, HTML, and other web technologies. Implemented a PostgreSQL database to store and manage logical information, ensuring efficient data organization and retrieval.
- Implemented web notifications and hooked it with various events developed a highly flexible coupon system for listings Handled end-to-end development from developing APIs in Django and frontend in React to the deployment of various features implemented offers & discounts system in accounting tool.
- Designed and developed a service-oriented backend application using Python and Flask, incorporating Docker for containerization. Enhance data accessibility and enable efficient log management and search functionality with Elasticsearch.
- Understanding of designing applications utilizing HTML5, CSS3, and JavaScript, as well as knowledge of backend languages such as Python and Java.
- Collaborated with the DevOps team to adapt the application for microservices deployment in an AWS cloud environment, ensuring compliance with cloud automation practices.
- Strong problem-solving, organizing, communication and planning skills with ability to work in a team environment.

### EDUCATION

#### Master of Science, Computer Science

2023

Illinois Institute of Technology, Chicago, USA.

Jan 2021 – May

GPA:

3.7

#### Bachelors (Degree)

Parul University, India.

Jun 2015- May 2019

### TECHNICAL SKILLS

Programming Languages/Web Technologies:	Python, Java, JavaScript, Node Js, Deno, TypeScript, CSS, HTML, Tailwind-CSS, MaterialUI
Frameworks:	React.js, Flask, Redux, Spring Boot
Databases:	MySQL, MongoDB, NoSQL, DynamoDB, SQLite, PostgreSQL, Firebase
Tools/Platforms:	EC2 EBS, S3, AWS lambda, AWS RDS, VS Code, Google Cloud, Android Studio, Docker, PyCharm, Postman, GitHub, RESTful Api, Charts.js, Re-charts, Bootstrap

### PROFESSIONAL EXPERIENCE

#### Epsilon, IL

##### FullStack Developer

| Mar 2023 - Present

- Collaborated with the team on an optimization project focused on identifying and improving low-performing API endpoints. Redesigned the underlying data structures and implemented advanced algorithms, resulting in a substantial 60% reduction in Service Level Agreement (SLA) breaches.
- Developed RESTful APIs and microservices using the Spring Boot framework, enabling seamless communication between different components of the application and reducing integration time by 25%.
- Integrated and configured Elasticsearch to enable advanced search functionality, leading to a 40% improvement in search response time and enhancing overall application performance.
- Collaborated closely with frontend developers to define and implement API contracts, ensuring smooth integration and efficient data exchange between frontend and backend systems.
- Conducted peer code reviews, providing constructive feedback to team members that resulted in a higher quality of code and adherence to best practices.
- Design, develop and deploy web components that meet accessibility and web browser standards for websites using HTML, CSS, Bootstrap, JavaScript and React.JS.
- Utilized Git as a version control system, ensuring efficient source code management and facilitating collaboration within the development team.
- Worked with databases including MySQL, PostgreSQL, and MongoDB for efficient data storage and retrieval, ensuring

data integrity and optimized performance.

- Deployed applications on cloud platforms like AWS and Azure using Docker containers, enabling scalability, portability, and simplified deployment processes.
- Designed and implemented UI elements utilizing native UIKit protocols, ensuring seamless compatibility across various UI devices.

**Beyond Key Solution, IL**  
**Full Stack Developer (Intern)**

**| Dec 2022 – Feb 2023**

- Aided in translating complex business logic specifications and comprehensive design documents into interactive application features, leveraging web development languages HTML5, CSS3, and JavaScript.
- Enhanced design of website frontend, contributing to creation of embedded graphics, interactive documents, and other visual elements using JavaScript, HTML, and CSS.
- Collaborated in creating responsive static prototypes for various user interface pages, including login, registration, application, and dashboard, gaining proficiency in HTML, CSS, Media Queries, and JavaScript.
- Supported the implementation of UI Bootstrap and CSS/CSS3 to enhance user experience through high-performance visual effects and interface responsiveness.
- Spearheaded elements of development of a Single Page Application (SPA) using ReactJs, MongoDB, and NodeJS, engaging in various stages of the development process.
- Employed ReactJs to implement a component-based architecture and state management for efficient UI updates, gaining familiarity with reusable components and props, and ReactJs virtual DOM rendering.
- Collaborated in development of various ReactJs components for application, managed web services, and integrated API calls, enhancing application's functionality.
- Acquired practical skills in using ReactJs and Bootstrap to create and manage controllers handle an array of client-triggered events, improving understanding of server interactions.
- Implemented a user-friendly Credit Card payment UI with real-time progress tracking using JavaScript and ReactJs, bolstering application's e-commerce capabilities and user experience.
- Received hands-on experience with backend technologies including Python, Flask, Express, and NodeJS, broadening my understanding of full-stack web development.

**Shaili Pharma Chem Ltd. – India**  
**Full Stack Web Developer**

**| Sep 2019 – Oct 2020**

- Collaborated closely with a UX designer and marketing manager to visualize, plan, and program the company website, offering key insights on user experience and frontend functionalities.
- Developed a static website to increase brand visibility, utilizing a combination of frontend technologies such as HTML, CSS, Sass, Bootstrap, JavaScript, and ReactJs, thereby improving user engagement and site traffic.
- Applied best practice SEO methods to enhance site visibility, contributing to a notable increase in organic search rankings and web traffic.
- Developed and sustained a robust Customer Relationship Management (CRM) system utilizing ReactJs and Flask, refined customer data management and boosted customer interaction processes.
- Employed apiary.com to architect essential project model APIs, bolstering interoperability of software components.
- Employed Material UI to design pages and RESTful routes, initiate web requests to retrieve data, format and style results, thereby contributing to a consistent and engaging user experience.
- Executed seamless integration between frontend and backend systems, partnering closely with backend development team to comprehend and apply API requirements, ensuring alignment with UI/UX design concepts.
- Spearheaded development of efficient APIs amplified overall user experience, enabling faster data access and more intuitive user interactions.
- Performed mock testing for APIs with apiary.com, ensuring reliability and functionality before deployment, thus reducing potential issues after launch.
- Consumed client-side RESTful calls to receive JSON-based responses, facilitating more efficient data exchange between client and server.
- Developed 36 RESTful APIs with Flask, improved real-time frontend interactions and user access to relevant information, thereby increasing overall application responsiveness.
- Designed and built an efficient database schema with PostgreSQL relational database system, accelerating query response times and reducing maintenance efforts.
- Harnessed power of ReactJs and Material UI to create intuitive user interfaces, resulted in a 15% reduction in data update and retrieval processing times.

**Neebal Technologies, India**  
**Full Stack Developer (Intern)**

**| Jan 2019 - Aug 2019**

- Actively participated in the entire SDLC process, from requirement gathering and system analysis to design, development, testing, and deployment, ensuring an efficient and quality-assured delivery of software applications.
- Adopted Agile Methodology throughout the development process, ensuring prompt and quality delivery of software modules, meeting customer expectations and project timelines effectively.
- Developed an engaging single-page web and mobile application using advanced technologies including Node JS, ReactJs, Bootstrap, HTML, and CSS3, providing an enhanced user experience and interface.
- Responsible for designing user-interactive web pages and front-end applications, employing advanced web technologies such as CSS, JavaScript, and jQuery, leading to a more engaging and dynamic user interface.
- Undertook the task of prototyping new features and innovative ideas using HTML and CSS, facilitating early feedback and iterations, ultimately improving final application design.

- Skillfully incorporated the use of ReactJs for building client-side applications and Node.js for creating server-side APIs, ensuring seamless data exchange between client and server.
- Employed ReactJs as the primary framework to create a Single Page Application (SPA), enabling data binding to specific views and efficient data synchronization with the server.
- Utilized Node.js and Express to develop pertinent backend RESTful APIs, ensuring smooth and effective backend operations.
- Leverage jQuery and JavaScript to add dynamic and interactive elements to the frontend components, enhancing overall web page dynamism and interactivity on the client side.
- Designed all client-side validation using JavaScript, improving data integrity and reducing erroneous data input.
- Designed and developed a comprehensive data management system using MySQL, improving data handling efficiency and database performance.
- Conducted regular debugging and troubleshooting on the web application, resolving an average of 25-30 technical issues per week. These proactive efforts ensured a smooth user experience and reduced technical disruptions by approximately 80%.

**ACADEMIC PROJECTS**

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**Forecasting with Microservice Architecture**

- Generated data from GitHub Repository API encompassing issues, forks, branches, commits and releases to provide time-series predictions.
- Integrated GitHub API with Flask server to yield a dataset of over 1.5 million records, forming an LSTM, prophet, and Stats models timeseries forecasting model for accurate repository issue and release predictions.
- Developed three separate Flask servers hosting distinct time-forecasting models with a combined 0.9% prediction accuracy rating, consuming 60% less resources than initially projected.
- Devised interactive interface allowing users access quick communication with the 3-model server yielding reliable forecast outcomes.
- Constructed data visualizations employing Re-Charts Library, creating 18 complex charts to illustrate results from production flask applications and increase accuracy of analysis.

**Effect of Noise on Sentiment Analysis using SVM and BERT**

- Formulated baseline for SVM and BERT model using ideal training and test data to compare it with the result of noisy dataset.
- Derived key features and functionality include reporting civil issues, creating petitions, tracking progress and connecting with other activists.

**Expense Tracking Application**

- Constructed an Expense tracker application to keep track of day-to-day expenses using ReactJs.
- Created expense charts in React.js to identify relevant data trends and picture users spending habits over time.
- Deployed ReactJs frontend application on the GitHub with help of GitHub-pages.
- Hosted Expense Tracker app on Amazon S3 & CloudFront, achieving 99.9% uptime and 50% cost reduction.
- Improved expense chart visualizations, increasing user spending habit insights and accuracy by 30%.
- Designed serverless backend using AWS API Gateway, Lambda, and DynamoDB, reducing costs by 50% and increasing scalability 3x.

**CERTIFICATIONS:**

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<b>AWS Certified Developer – Associate</b>	<b>April - 2023</b>
<b>AWS Certified Solutions Architect - Associate</b>	<b>March - 2023</b>
<b>AWS Certified Cloud Practitioner</b>	<b>March - 2023</b>