

# Shashank Bhat

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## SKILLS

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- Programming Languages: Java, JavaScript, Go, Python, Typescript, C++.
- Full Stack Web Technologies: React, Node.js, Next.js, Spring Boot, Django, HTML, CSS, Redux, jQuery.
- Database: MongoDB, Oracle, Postgres.
- Deployment Tools: Docker, Kubernetes, Maven, Jenkins.
- Miscellaneous: PL/SQL, Unix shell scripting, TensorFlow, PyTorch, Keras, Linux, Git, SOAP, AWS

## PROFESSIONAL EXPERIENCE

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### UF Innovate, Gainesville

May 2022 – December 2022

#### *Full-Stack Intern / Student Developer.*

- Developed the **Front End interface** of the web platform using React **JavaScript** UI framework. Also, part of the development team building **backend interface** using **Node.js**, **Python Django** framework, **Postgres** and MongoDB hosted on **Azure CosmosDB**.
- Integrated with **Azure Blob Storage** for file upload and download feature.
- Reduced manual effort for creating entries by **75%** by building APIs to parse Excel based data, and preprocessing the data using node-xlsx and uploading data to DB in bulk.
- Handled **Authentication** and **Authorization** of users by integrating the application with **Auth0**.
- Setup **CI/CD pipeline** and deployed application to **Azure Cloud Platform** using **GitHub Actions**.
- Handled meetings to communicate and address pain points of clients and other stakeholders and resolve with robust design patterns for better user experience.

### Tech Mahindra, Mumbai

November 2016 – August 2021

#### *Software Engineer.*

- Responsible for development of scalable **RESTful microservices** using **Java** and **Spring Boot** for AT&T's ticketing application having average monthly call rate of **1.5 million calls** used by over **80** downstream services.
- Designed **configurable Java plugins** around BMC remedy application for interacting with downstream **SOAP services** for consistent data visibility.
- Assisted in **deployment** of microservices to production and other dev/test environments by creating **Docker** images, storing them to cloud and deploying the images to **Kubernetes** clusters using automated **Jenkins** pipeline
- Created **Node.js** scripts for parsing CSV data of monthly project metrics, preprocessing it and storing it to **MongoDB**.
- Improved the code coverage by 15% by refactoring dead and redundant code. Also reduced the security vulnerabilities in codebase by fixing bugs found in DynaTrace scans and proper JUnit test cases.
- Increased performance of microservices by implementing caching using **Ehcache** for faster response time.
- Wrote **Linux shell-scripts** to automate process of updating code from **Git**, compile Java plugin code, and restart instance of Java plugins in servers.
- Enhanced and optimized existing in-house **Selenium-based** testing framework to reduce execution time by **50%**.
- Implemented a report generating module using **TestNG** for automated testing with screenshots for each step of test case.

## PROJECTS

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### Google Docs Clone App

- Web application for collaborative document creation using MERN JavaScript stack.
- Integrated with **Google Firebase** for authentication of users.
- Enabled concurrent editing of document by multiple users using **WebSockets**.
- Added functionality to add/remove user access to documents and lock document editing.
- Handled support for multiple font types and adding images to document using Quill.js for rich-text editor.
- Used Tailwind CSS for styling all components throughout the web-application.

### Discord Clone

- Full-stack Discord web application developed using **Next.js**, **Typescript**, Postgres, and Tailwind.
- Integrated LiveKit WebRTC stack for multi-user live **video** and **audio call** conferencing.
- Secured the application with user authentication using **Clerk Auth** Provider.
- Developed features to create multiple servers, invite people to servers and **real-time messaging** using sockets. Also support image and document upload and emojis.

### Movie Tracking Application

- Developed a Full-Stack web application using **React** and **Node** inspired by IMDB, allowing users to view details of movies and TV shows.
- Built features where user can search content, give ratings, create watchlists and add to favourites.
- Displayed graphs and statistics of the user based on the interaction of user with movies and other content.

### EDUCATION

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**University of Florida, Gainesville**

**August 2021 – May 2023**

**Masters of Science, Computer Science.**

Received **Achievement Awards Scholarship**.

Courses: Database Management Systems, Math for Intelligent Systems, Machine Learning, Applied Machine Learning, Distributed Operating Systems, Analysis of Algorithms, Advanced Data Structures.

**Manipal Institute of Technology, Manipal, India**

**August 2012 – May 2016**

**Bachelor of Technology, Computer Science and Engineering.**

Received **Scholarship** for ranking among the **top 10** students admitted to the Computer Science program.