

# Prakhar Srivastava

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Motivated and skilled Software Developer Engineer with experience in designing and developing high-quality services. Ability to optimize software testing, build Rest APIs, migrate existing architectures to Microservices and real-time operating systems. Strong proficiency in databases, Machine Learning, and Large Language Models. Excels in collaborating with cross-functional teams to achieve project goals.

## Experience

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### ABB Ltd.

Software Engineer

Bangalore, India

Feb 2024 – Present

- Work with team members to manage and automate Deployment, upgrades, code reviews, and version release management.
- Engineered a document processing application using **Azure Cognitive Services**, **Azure Document Intelligence**, and **GenAI** for advanced automated extraction and analysis, ensuring comprehensive document understanding..
- Integrated **React/TypeScript frontend** with **Python, Flask** backend, seamlessly merging LLM for scalable, sophisticated AI-driven solutions, covering text generation and understanding.
- Established a robust data pipeline on **Azure app services**, deploying GenAI models for personalized content generation, including LLM for chatbot development.
- Designed, monitored, debugged, and conducted data analysis using **Typescript, Python** and **Azure Blob storage**

### Amazon LLC

Software Developer Engineer

Seattle, USA

July 2022 – Dec 2023

- Experience building large-scale high-speed server-side software and working in a fast-paced, **CI/CD** and **Agile** environment.
- Developed **REST** based microservice and user interface web applications using **JavaScript, JSON, AngularJS**, and **XML**.
- Identified and resolved a bottleneck in the **AWS** software testing process, which saved **15%** time spent on software testing
- Developed **REST API** endpoints to optimize the account verifications and integration tests using **Cypress, Python** and **JAVA**.
- Attention to quality and performance with a focus on building low-latency responsive apps using **Java, ReactJS, Typescript**
- Designed, monitored, debugged, and conducted data analysis using **JAVA, Spring Boot, Python** and **DynamoDB**.
- Migrate existing Monolithic architecture to full-fledged Microservices using **Spring Boot** and **Spring Cloud** in multiple stages

### Monteage Technologies Pvt Ltd.

Software Engineer

Delhi, India

Jan 2018 – Dec 2020

- Developed scripts to automate the update of data files on the company website, using **Python**, and helped to debug responsiveness and customized it for mobile devices by formatting pages using **Selenium, BeautifulSoup, Pandas** and **Numpy**
- Developed various **JAVA 2 enterprise edition** applications within microservices architecture and effectively integrated them with **RESTful APIs** using **Kafka**
- Build REST web service by building **Node.js** Server in the back-end to handle requests sent from front-end **jQuery Ajax** calls.
- Created dynamic web pages that are more user-interactive using **JAVA, HTML5, CSS3, JavaScript, Spring, JSON**, and **Bootstrap** for client-side validations.
- Designed scripts and ran queries to retrieve data and managed client databases to improve the usability of data using **NoSQL**.
- Focused on providing clients with customized solutions for their real-time needs in the technology sector of Bar-codes, CCTV, LED, RFID and GPS sensors, Smart Education Systems, firmware development, controllers, and IoT device solutions.

## Hind Rectifiers Ltd.

Electrical Engineer

Dehradun, India

July 2017 – Jan 2018

- **Quality Control(QC)** engineer followed Six Sigma for secure and efficient computing-based technologies.
- Executed verification by developing programs and modeling systems in **MATLAB**, **Python** and **JAVA** to evaluate and improve the real-time stability, reliability, and integrity of the system.

## Skills

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**Languages:** Python, JAVA, C/C++, C#, HTML, CSS, JavaScript, Typescript, PHP, Kotlin, SQL, GraphQL, MATLAB

**Framework:** React.JS, Node.JS, Angular, jQuery, Spring Boot, Spring Cloud, .Net, Flask, Rest API, Kafka, Docker, Kubernetes.

### Databases:

AWS: Amazon DynamoDB, Amazon S3, Amazon RDS, Amazon Aurora, MongoDB.

Azure: Azure Blob Storage, Azure CosmosDB, Microsoft Azure SQL Database.

### Cloud Services:

AWS: Amazon EC2, Amazon Lambda, Amazon CloudFront, Amazon IAM, Amazon Notification Service, Amazon SQS, Amazon CloudWatch.

Azure: Azure Open AI Services, Azure App Services, Azure document intelligence, Azure cognitive services, Azure Active Directory (AAD).

**ML Libraries:** Pandas, NumPy, Matplotlib, Selenium, BeautifulSoup, Scikit-learn, OpenCV, PyTorch, Keras, TensorFlow.

**Tools/Operating Systems:** CI/CD, DevOps, Agile, Jupyter, Google Colab, IntelliJ, VS Code, Git, Linux, Windows, MacOS

**Transferable:** Research, Problem Solving, Time Management, Database management, Teamwork and Collaboration.

## Projects

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### Comp-GAN Recommender System – Python, TensorFlow

Jun 2021 - Aug 2021

- Advised by Professor Alex Doboli - Research Project: Generative model used for adversarial minimax game and trained two models, generative and discriminative model, and estimated the probability for the recommendation system.

### Automate Board Game – Python, Matplotlib, JAVA

Feb 2021 - May 2021

- Developed a board game in **JAVA** and **DistAlgo** with distributed processes as players and the board as an object.

### Pandemic Trajectory – Python, Openpyxl, Xlsxwriter, Json

Jun 2020 - Aug 2020

- Built a script that utilizes a **JSON** file from a government website to extract COVID-19 data and generate a report with graphs, diagrams, and trajectories to visualize the daily cases and physical recordings.

### Internet Of Things Controller – Arduino IDE, C++, JAVA

Jan 2017 - May 2017

- Constructed a prototype for controlling a hybrid energy system using ESP8266 wifi-module and programmed in **JAVA** and **C++**
- Internet of Things enables the seamless switching of power supply between wind energy and solar energy for a house through a secure website in the absence of a grid supply. [Google Scholar](#)

## Education

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### Stony Brook University

Master of Science, Computer Engineering - 3.54 GPA

Stony Brook, NY

Jan 2021 - May 2022

### DIT University

Bachelor of Technology, Electrical Engineering

Dehradun, India

July 2013 – May 2017