

# Prakhar Srivastava

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Motivated and skilled **Software Developer Engineer** with experience in designing and developing high-quality web applications. Ability to optimize software testing, build Rest APIs, migrate existing architectures to Microservices and real-time operating systems. Strong proficiency in databases and ML libraries. Excels in collaborating with cross-functional teams to achieve project goals.

## Experience

### Amazon LLC

Seattle, USA

*Software Developer Engineer*

*July 2022 – Present*

- Work with team members to manage and automate Server Deployment, upgrades, code reviews, and version release management.
- Experience building large-scale high-speed server-side software and working in a fast-paced, **CI/CD** and **Agile** environment.
- Designed user interfaces 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**
- Design, coding, debugging, reporting, data analysis and web application using **JAVA**, **Spring Boot**, **Python** and **DynamoDB**
- Migrate existing Monolithic architecture to full-fledged Microservices using **Spring Boot** and **Spring Cloud** in multiple stages

### Solera Life Sciences Pvt Ltd.

Delhi, India

*Software Developer Intern*

*Oct 2020 – Jan 2021*

- Developed scripts to automate the update of data files on the company website, helped to debug the responsiveness and customized it for mobile devices by formatting the pages using **Selenium**, **BeautifulSoup**, **Pandas** and **Numpy**.
- Designed scripts and ran queries to retrieve data and managed client databases to improve the usability of data using **MySQL**.
- 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 **HTML5**, **CSS3**, **JavaScript**, **Spring**, **JSON**, and **Bootstrap** for client-side validations.

### Monteage Technologies Pvt Ltd.

Delhi, India

*Software Engineer*

*Jan 2018 – Sep 2020*

- 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.
- Deployed the contouring method for cleaning and processing thermal images captured using FLIR camera in **Javascript**, **Python**
- Implemented Core **JAVA** concepts like Multithreading, Collections, Generics & Exception Handling to solve business challenges.

### Hind Rectifiers Ltd.

Dehradun, India

*Electrical Engineer*

*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

**Languages:** Python, JAVA, C/C++, HTML/CSS/JS, ReactJS, NodeJS, AngularJS, Kotlin, GraphQL, typescript, jQuery, MATLAB  
**Databases/Frameworks:** MongoDB, Cassandra, Kafka, DynamoDB, Flask, Spring, Docker, Kubernetes, Rest API, .NET, SQL  
**ML Libraries:** Pandas, NumPy, Matplotlib, Selenium, BeautifulSoup, Scikit-learn, OpenCV, PyTorch, Keras, TensorFlow  
**Tools/Operating Systems:** AWS, CI/CD, Agile, Jupyter, Google Colab, IntelliJ, VS Code, Git, Linux, Windows, MacOS  
**Transferable:** Research, Problem Solving, Time Management, Database management, Teamwork and Collaboration

## Projects

### 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

### Stony Brook University

Stony Brook, NY

*Master of Science, Computer Engineering - 3.54 GPA*

*Jan 2021 - May 2022*

### DIT University

Dehradun, India

*Bachelor of Technology, Electrical Engineering*

*July 2013 – May 2017*