Prakhar Srivastava

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Motivated and skilled Software Developer Engineer with experience in designing and developing high-quality web and mobile services. 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.
- 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**
- 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

Monteage Technologies Pvt Ltd. Delhi, India
Software Engineer *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** applications within microservices architecture and effectively integrated them with **RESTful APIs**
- Build REST web service by building **Node.js** Server in the back-end to handle requests sent from front-end **jQuery Ajax** calls.
- Deployed the contouring method for cleaning and processing thermal images captured using FLIR camera in **Javascript, Python**
- 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 **MySQL.**
- 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. 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, JavaScript, Typescript, Kotlin, SQL, GraphQL, PHP, MATLAB
Framewroks: React.JS, Node.JS, Angular, jQuery, Spring Boot, Spring Cloud, .Net, Flask, Rest API, Kafka, Docker, Kubernetes
Databases: Amazon DynamoDB, Amazon S3, Amazon RDS, Amazon Aurora, MongoDB, Cassandra
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*