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 LLMs. Excels in collaborating with cross-functional teams to achieve project goals.

Experience

ABB Ltd. Remote, USA
Software Engineer *Feb 2024 – Present*

- Work with team members to manage and automate Deployment, upgrades, code reviews, and version release management.
- Developed and maintained backend services using **Java** and **Sprint Boot**, including **RESTful APIs** and data processing services, integrating with **Azure Cognitive Services** and **Azure Document Intelligence** for document processing, and ensuring efficient and secure data handling.
- Integrated **JavaScript/TypeScript** and **React** 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** by deploying GenAI models for personalized content generation, including **LLM** for chatbot development, while leveraging **microservices** to handle different components of the pipeline independently, thereby improving fault isolation and ease of updates.
- Developed and deployed **GenAI** models in a containerized environment using **Docker**, ensuring seamless scalability, consistent deployment, and efficient resource management across multiple platforms.
- Designed, monitored, debugged and conducted data analysis using **JavaScript/Typescript, Python** and **Azure Blob storage**

Amazon LLC Seattle, USA
Software Developer Engineer *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. 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 and maintained **Spring Boot** applications within a **microservices** architecture, leveraging its capabilities to create scalable and efficient services and integrating them with various **RESTful APIs** while managing inter-service communication 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. 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++, C#, HTML, CSS, JavaScript, Typescript, PHP, Kotlin, SQL, GraphQL, MATLAB

Framewroks: 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 CosmoDB, Microsoft Azure SQL Database.

Could Services:
AWS: Amazon EC2, Amazon Lambda, Amazon CloudFront, Amazon IAM, Amazon Notification Service, Amazon SQS, Amazon CloudWatch.
Azure: Azure Open AI and Cognitive Services, Azure App Service, Azure Document Intelligence, 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

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 - 3.57 *GPA* *Jan 2021 - May 2022*

DIT University Dehradun, India
Bachelor of Technology, Electrical Engineering *July 2013 – May 2017*