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

Experience

ABB Ltd. Bangalore, India
Software Engineer *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.
- 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 **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**.
- Created dynamic web pages that are more user-interactive using **JAVA, HTML5, CSS3, JavaScript, Spring, JSON,** and **Bootstrap** for client-side validations.
- 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

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: Amazon DynamoDB, Amazon S3, Amazon RDS, Amazon Aurora, MongoDB, Azure Blob Storage, Azure CosmoDB, Microsoft Azure SQL Database.
Could Services: Amazon EC2, Amazon Lambda, Amazon CloudFront, Amazon IAM, Amazon Notification Service, Amazon SQS, Amazon CloudWatch, 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

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* Google Scholar *Jan 2017 - May 2017*

- Constructed a prototype for controlling a hybrid energy system using ESP8266 wifi-module and programmed in **JAVA** and **C++**

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*