Prakhar Srivastava

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Highly skilled and motivated **Software Developer Engineer** with experience in the technology industry. Proven ability to design, develop, testing, and deploy high-quality software applications. Strong analytical and problem-solving skills in object-oriented programming languages, data structures, algorithms, distributed systems, and software engineering principles. Experienced working in a fast-paced, agile environment.

Skills

Languages: Python, JAVA, C/C++, HTML/CSS/JS, React, Angular, NodeJS, Kotlin, GraphQL, TypeScript, MATLAB, AutoCAD
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, iOS, Linux, Windows, MacOS
Interfaces/Technologies: UART, I2C, I2S, SPI, PCI, SIMD, PLC, UML, WiFi, Bluetooth/BLE, Ethernet, TCP/IP, ARM
Transferable: Research, Problem Solving, Time Management, Database management, Teamwork and Collaboration

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.
- Attention to quality and performance with a focus on building low-latency responsive apps using **Java, React** and **NodeJS.**
- 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**.
- Migrated existing Monolithic architecture to full-fledged Microservices using **Spring Boot and Spring Cloud** in multiple stage

Solera Life Sciences Pvt Ltd. Delhi, India
Software Developer Intern *Oct 2020 – Jan 2021*
- Created 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**.

Monteage Technologies Pvt Ltd. Delhi, India
Embedded 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.
- Implemented the contouring method for cleaning and processing thermal images captured using FLIR camera in **Python.**
- Designed and developed software for real-time embedded systems, leading to a **25%** increase in product performance.
- Applied Java and C++ concepts like Multithreading, Collections and Exception Handling to solve business challenges.
- Conducted comprehensive testing and verification to validate the functionality and performance of SPI/UART-based interfaces.

Hind Rectifiers Ltd. Dehradun, India
Electrical Engineer *July 2017 – Jan 2018*
- **Quality Control(QC)** engineer of power electronics followed Six Sigma for secure and efficient computing-based technologies.
- Executed verification by developing programs and modeling systems in **MATLAB, Python** and **C++** to evaluate and improve the real-time stability, reliability, and integrity of the system.

Projects

Comp-GAN Recommender System – *Python, TensorFlow* *Jun 2021 - Aug 2021*
- Under the supervision of Professor Alex Doboli, performed a research project on use of generative models in **Machine Learning** for adversarial minimax games. Trained two models, a generative and discriminative model, and used them to estimate the probability for a recommendation system.

Automate Board Game – *Python, Matplotlib* *Feb 2021 - May 2021*
- Developed a board game in **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++* *Jan 2017 - May 2017*
- Constructed a prototype for controlling a hybrid energy system using ESP8266 wifi-module and programmed in **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*