Noella Noronha

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SUMMARY

An enthusiastic, innovative and results focused software engineer with around 3 years of experience in designing, developing and maintaining software applications and products. Excellent at working in fast-paced environments, I thrive on challenges and adept at handling Agile-driven evolving projects with my knowledge of scripting, databases and programming. Consolidated and collaborated in cross-functional teams to build robust applications and delivering simple, scalable solutions for distributed.

TECHNICAL SKILLS

Programming Languages: Java, Kotlin, TypeScript, C/C++, Python.
Front-end Technologies: ReactJS, Angular, Next.js.
Back-end Technologies/Frameworks: TensorFlow, PyTorch, Hugging Face, Spring, Spring Boot, JUnit.
Data Science Tools: Pandas, NumPy, Scikit-learn, Tensorflow, Matplotlib.
Databases: MongoDB, PostGres, MySQL.
Cloud Technologies: AWS Solutions Architect *(Link to Certification)*, Kubernetes.
SCM/CRM Tools: GitHub, Git, Confluence, Wiki.
CI/CD Tools: Bit Bucket, GitLab, Azure DevOps.
Dev Tools: Google Colab, Jupyter Notebooks, PyCharm, VS Code.

EXPERIENCE

Junior Software Developer, *Logsoft Software Pvt. Ltd* *Feb. 2023 – Aug. 2023*

- Implemented and maintained new and existing features for logistics operations in Germany, which streamlined the shipping process for 500 product lines and improved delivery accuracy by 40% within three months ensuring quality delivery.
- Inspected production-level code and demonstrated proficiency in unit and regression testing improving user performance by 20% during code reviews with senior developers and designers.
- Documented dynamic code in Angular integrated with ASP.Net, using Swagger UI; streamlined user interface for 5+ applications, enhancing loading times by 50% and user satisfaction ratings by 25%.
- Demonstrated good understanding of modern architecture patterns by applying knowledge of both MVC and MVVM to build interfaces and refactoring code for client forms, file creation and location tracking ensuring the optimal system performance.

Assistant System Engineer, *Tata Consultancy Services* *Apr. 2021 – Dec. 2022*

- Ensured continuous integration by following rigorous coding standards, design patterns and test-driven development.
- Spearheaded KPIs and automated workflows for new team members ensuring 40% reduction in the code maintenance effort.
- Facilitated crucial workflows during the critical phases of the financial year, which helped in shaping the Oracle Payroll system for an overseas bank. This received wide praise from the organization and project stakeholders.
- Supported in developing latest software patching and change initiatives performing DDL/DML procedures in production.

Embedded Hardware Engineer, *CareNX Innovations Pvt. Ltd* *Jun. 2019 – Jul. 2019*

- Involved in building prototypes of ATMEGA328U and extensive research in understanding architecture for embedded circuits for preparing pregnancy kits to supply to woman in the remotest parts of India.
- Contributed to the organisation by designing the SOIC layout on Eagle and troubleshooting the circuit to identify defects before they were pushed to production.

EDUCATION

Advanced Computer Science, *University of Strathclyde, Glasgow, UK* *Sept. 2023 – Sept. 2024*

- Final Grade: Distinction
- Core Modules: Big Data Technologies; ML for Data Analytics; Mobile software development; Designing Usable Systems
- Dissertation: *"Catching content generated using LLMs" (Kaggle Prepared Benchmark)* exploring methods to capture semantic features in text generated by large language models (LLMs) by experimenting with Hugging Face libraries and latest open-sourced Llama, GPT Models, and applying these principles to enhance the prediction of natural language generation. Scraped available corpuses for human and AI texts for preparing benchmarks to feed detectors performing extensive zero-shot and few-shot approaches which received massive appreciation from the supervisor for the novelty of research earning a **distinction** as the final grade.
- Big Data Coursework (Semester 1): "Predicting the causes and performing analysis of Stroke", the inspiration behind this was to achieve tangible results for estimating the causes of stroke by available datasets. The tools used for this analysis were Google Colab, Pandas, NumPy packages for performing EDA and regression models for predicting the test sets of those

impacted with stroke. Earned **distinction** as a final grade for well-justified reasoning and effective use of metrics and methods.

- Work Experience:
  - **GenAI Student Member:** Worked closely with the GenAI community at university with emphasis on applying AI governance to keep pace with the growing pace of language models reviewing journals, articles from those published by Alan Turing Institute
  - **Lab Demonstrator:** Reviewed lab materials, assessments and provided constructive feedback to undergraduate for foundations of programming languages in Java using IntelliJ along with testing tools that were designed for the assessments.

B.E Electronics and Telecommunication Engg, *University of Mumbai* *Jun. 2016 – Oct. 2020*

- Core Modules: Digital Signal Processing, Electronic Devices and Circuits, Satellite Communication, Networking
- Dissertation: "Spatial Analysis of 3D Space using 2D Images" was taken to automate producing 3D images from 2D panoramic images for newly constructed homes need to be visualized from another location. Using the power LIDAR sensor technology for rendering 3D images, calculated room depth through efficient ANN models of ResNet, UNet and HorizonNet, this study aimed to explore most efficient forms of depth estimation. This project was awarded First Place in a technical paper presentation competition and was presented at two research conferences including publications at IEEE *(link to paper)*

Post Graduate Training, Centre for Development of Advanced Computing *Sep. 2020 – Apr. 2021*

- Key Modules: OOPs with Java; Advanced Java - JSP, Servlets, Spring Frameworks; Database Technologies
- Project: "Pet Portal" *(Source Code)* is a web platform designed for pet owners to schedule appointments with veterinarians. It was developed using the Spring Boot framework to power the backend server, complemented by React JS for the frontend user interface. In addition to application development, this project fostered effective teamwork by utilizing SDLC tools like Jira and conducting daily scrum meetings.

PROJECTS

Unity Pathway Developer *(Source Code)*

- Participated in game jams/hackathons during university and collaborated in open-sourced projects associated with Women Who Tokyo on Unity projects creating simulations to render 3D AR models and simulations in real-time.
- Experience of using Vuforia engine and creating image targets database for applications in Unity.

Fitness Application *(Source Code)*

- Developed an **MVVM** trigger-based application on **Kotlin** that would track the client's daily fitness habits and motivate them to exercise. Designed to employ geolocation-based suggestions for user visiting stores or fitness studios Provided a boilerplate for team members to onboard to the application. Expedited application development using concise CI/CD pipelining strategies that would improve and enhance team progress

AWARDS AND ACHIEVEMENTS

McLaren Racing Scholar, *Woking, United Kingdom*

- Chosen as one the 60 STEM Scholars in the UK to be chosen by McLaren Racing Group during my time at university getting expert advise in dynamic industries like motorsports, getting a know-how of strategic planning and engineering practices for influencing innovation. These experiences have collectively driven me to promote more women in STEM and become an expert in my domain of interest combining software and my undergraduate experience in electronics

MDN Hackathon Winner, *MDN Solutions*

- Prepared and trained optimized linear regression models to predict forecasting data for windmills and solar panels which involved 24-hours of continued team effort and live presentations of the outcome.

CSI Department of Computer Engineering Winner, *University of Mumbai*

- First Place in Technical Paper Presentation Competition for Project "Spatial Analysis of 3D Space using 2D images"

INTERESTS & VOLUNTEERING EXPERIENCE

Member of the societies – Engineers without Borders working in teams at university to organize initiatives for sustainability. Evangelist of Women Who Code Network in Tokyo and Mumbai, participate in hackathons in tech meetups in Glasgow and collaborate with engineers on latest web developments.
Music – Was an active member of Piano society having trained for six grades in Piano Music and Singing which nurtured discipline, consistency and practice.
Sporting Activities – Actively participated at national level championships in University and school for badminton, trained in professional rock climbing and bouldering. F1/motorsports and go-karting enthusiast.

REFERENCES

Referees: 1. William Bell (william.bell@strath.ac.uk) 2. Dmitri Roussinov (dmitri.roussinov@strath.ac.uk)