NIGEL GEORGE

Backend Developer | Artificial Intelligence Enthusiast
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PORTFOLIO | LINKEDIN

PROFESSIONAL SUMMARY

Result-driven software developer with a proven track record of delivering high-quality, scalable solutions over 4+ years. Proficient in data structures, machine learning, and object-oriented programming, I excel in designing and implementing efficient software systems. Strong leadership, communication, and analytical skills, coupled with a collaborative mindset, enable me to thrive in dynamic team environments. Extensive experience in Agile Scrum methodology and adept at utilizing data science techniques to drive software development. Eager to leverage my expertise to contribute to impactful projects.

TECHNICAL SKILLS

Programming Languages:	Python – Django and Flask, SQL, Node.js, PHP
Database:	MySQL, PostgreSQL, Oracle, Microsoft SQL Server, Snowflake
Core Concepts:	Data structure and algorithms, Design and code architectural patterns, Statistics, Machine Learning, Data Mining and Visualization, Big Data, Object-oriented programming, Memory optimization.
Web Services:	REST APIs, Google Analytics, Databricks
Web Development:	HTML5, CSS3, JavaScript, jQuery, Bootstrap
Test-Driven Development:	Unit Testing, Integration Testing, Pytest
Development Tools:	PyCharm, VS Code, Jupyter Notebook, Tableau, Power BI
Project Management Tool:	Git, GitHub, GitLab
Operating System:	Linux, Windows, Mac
Other:	Excel, Code-reviewing, and Technical Documentation

SOFT SKILLS

Project Management, Problem-solving, Attention to detail, Leadership, Client relationship management, Critical thinking, post-production support and Training to end-users.

WORK EXPERIENCE

Backend Developer Volunteer   Feb/2024 – Mar/2024
Ophelia Inc [Start-up], Markham, ON
- Developed full backend infrastructure for two MVP portals, leveraging Node.js, Python and SQL.

Webpage Development Volunteer   Nov/2023 – Dec/2023
Loyalist College, Toronto, ON
- Built modules in college's Student Portal using SharePoint.

Senior Software Developer - Backend   Jan/2020 – Apr/2022
Om Informatics, Mumbai, India
- Developed backend infrastructure, including RESTful APIs and complex database management, and collaborated with frontend developers for seamless integration, testing, and server setup and deployment.
- Optimized code and databases, achieving a 20% efficiency boost and 60% reduction in response time, and led three projects from inception to completion, overseeing the entire development lifecycle and managing a team of two developers for each project.
- Maintained software development lifecycle, improved project robustness through debugging, and optimized code using appropriate data structures and design patterns for enhanced reusability.
- Worked on multiple technologies including Python - Django and Flask, Core PHP, SQL, Excel, PostgreSQL, JavaScript, jQuery, Ajax, Linux Server, and GitLab.

Full Stack Developer Intern   **Mar/2019 – Apr/2019**
Destiny Education & Travels Service Provider LLC, Andheri, India
- Completed a 440-hour MSc CS Internship Program.
- Developed a Customer Panel Module for their Web Application.
- Gained hands-on experience with technologies such as Spring Boot Microservices, MySQL, HTML5, CSS3, AJAX, and JavaScript.

Software Developer   **May/2017 – Jun/2018**
Hitesh Solutions, Mumbai, India
- Worked on the client's web application "Magic for Sales," focusing on frontend revamping and backend services development in Core PHP, MySQL (Xampp), HTML, CSS, and JavaScript
- Designed and built SMS Portal for the client using PHP, JavaScript, MySQL.
- Conducted thorough testing and debugging of software components, ensuring the delivery of high-quality and error-free applications.

EDUCATION

Ontario College Graduate Certificate in Artificial Intelligence And Data Science   **May/2022 – Dec/2023**
Loyalist College in Toronto, Canada

Master of Science in Computer Technology   **Jul/2017 – Apr/2019**
S.I.E.S, Mumbai, India   *GPA: 8.14/10*

ACADEMIC AND PERSONAL PROJECTS

Animal Detection (GITHUB)
- Developed a Web Application using Python - Flask, HTML, CSS, and JavaScript, incorporating YOLOv7 for object detection.
- Achieved a 94% accuracy rate in animal detection, demonstrating the effectiveness of the YOLOv7 model.
- Implemented error handling techniques to ensure robustness and reliability of the application.
- Key features include the ability to upload images and use a webcam for real-time animal detection. Upon detection, the application retrieved and displayed detailed animal information from Wikipedia using web scraping.

Fake Product Detection (GITHUB)
- Built a web application using Python - Django, HTML, CSS, and JavaScript, leveraging TensorFlow and Keras for machine learning model development. The application was designed for detecting fake products for an Ecommerce use case.
- Achieved a 96% accuracy rate in detecting fake products, demonstrating the effectiveness of the machine learning model.
- Implemented error handling techniques to ensure robustness and reliability of the application.

Company Stock Analysis (GITHUB)
- Developed a web application using Python - Flask, HTML, CSS, and JavaScript to provide detailed reports on historical stock trends.
- Users could upload company data, and the application utilized Pandas and Matplotlib to generate insightful reports.
- The application facilitated informed decision-making by highlighting key insights such as highs and lows in stock performance.

Other Projects (GITHUB , PORTFOLIO)
- Feel free to explore my other projects and additional information by visiting my portfolio.