Shaun Francis Noronha

508-723-6970 | sfnoronha@wpi.edu | linkedin.com/in/shaun-noronha | github.com/Shaun-Noronha

SUMMARY

Aspiring Software Engineer with a strong foundation in AI development and software engineering, gained through hands-on experience as an AI Developer Intern. Successfully designed and deployed LLM-powered solutions, automating content generation and improving operational efficiency. Eager to leverage skills in programming and innovative problem-solving to contribute to impactful software engineering projects

TECHNICAL SKILLS

Programming Languages: Python, C++, C, JavaScript, PHP, R, React, Node.js, MongoDB, MySQL, PostgreSQL, TypeScript

Python Programming: PyTorch, Keras, Matplotlib, NumPy, Pandas, Seaborn, Scikit-learn, Tesseract OCR, Tkinter, TensorFlow, Django, BeautifulSoup, Selenium, Hugging Face Transformers

Tools and Platforms: Azure, Zapier, n8n, Docker, Kubernetes, RESTful APIs, Linux, Git, Tableau, LaTeX, Ubuntu, Kafka, Terraform, PowerShell, RDBMS

PROFESSIONAL EXPERIENCE

AI Developer Intern   July 2024 – May 2025
ONLC Training Centers   *Delaware, USA*
- Designed and deployed LLM-powered solutions using LangChain and Azure AI Studio in Python, automating content generation for 50+ IT courses and reducing manual workload by 60%.
- Built intelligent automation workflows using n8n and GitHub Actions, creating a real-time badging system and embedding a chatbot into Moodle with Node.js.
- Developed conversational AI tools by extracting structured data from 30+ websites using Flask and Selenium, reducing support response time by 45%.

Software Development Intern   Dec. 2021 – Mar 2022
CMP Infotech   *Mumbai, India*
- Developed backend data processing scripts to ingest, clean, and store medical records in Firestore with consistent uptime and logging.
- Automated end-to-end data retrieval and transformation tasks using Python and Bash scripts, reducing manual overhead by 70%.
- Deployed a chatbot integrated with real-time Firestore queries, improving access to time-sensitive medical data.

Web Developer Intern   Aug. 2021 – Sep 2021
Brainovision Pvt. Ltd   *Mumbai, India*
- Led end-to-end development of an e-commerce site for a boutique cake shop using WordPress, HTML, and CSS
- Automated internal workflow evaluations, increasing productivity by 30% and saving over 20 hours per week
- Used user persona analysis and KPI metrics to redesign interfaces, increasing lead generation by 52%

PROJECTS

Music Genre Classification and Recommendation | GitHub | *Python, CNN, Flask*
- Built a music genre classification pipeline using convolutional neural networks (CNNs), extracting high-dimensional audio features with Mel-spectrograms and MFCCs for enhanced model precision
- Integrated real-time mood recognition into the Flask-based recommendation engine, enabling emotion-aware music suggestions
- Optimized user experience through a hybrid recommendation system combining collaborative filtering and content-based methods

Audio Adversarial Attack and Defense | GitHub | *Python, ASR, DeepSpeech*
- Engineered targeted adversarial attacks against automatic speech recognition (ASR) systems by injecting controlled noise patterns and minimizing CTC loss to manipulate transcriptions
- Developed audio defenses using compression techniques such as AMR and MP3 filtering to improve model robustness against adversarial inputs

OCR for Regional Languages | GitHub | *Python, EasyOCR, googleTrans, Flask*
- Created a multilingual OCR web app using EasyOCR and googleTrans to extract and translate regional language text from uploaded images
- Enabled real-time, accurate text processing and translation across multiple languages via a Flask backend

EDUCATION

Worcester Polytechnic Institute   August 2023 – May 2025
Master of Science in Computer Science   *Worcester, MA*
Xavier Institute of Engineering   July 2019 – May 2023
Bachelor of Engineering in Computer Engineering   *Mumbai, India*