DASOL LIM

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EDUCATION

University of Western Ontario   Expected May 2025
Bachelor of Engineering Science (BESc) - Software Engineering   London, ON
Dean's List 2021-2022
Coursework: Algorithms, Database Systems, Web Development, Data Science, AI, Operating System

TECHNICAL SKILLS

Languages: JavaScript, Python, TypeScript, Java, HTML, CSS, SQL, C#, PHP, LUA
Frameworks: React, Express, Node, Next.js, Expo
Tools: MongoDB, AWS (EC2), GCP, Docker, MySQL, Flask, TensorFlow, PyTorch, Bootstrap, Linux, Git, Jira
Certifications & Training: AWS Cloud 101, Google Cloud Skills DevOps Workflows, HackerRank Node.js Certificate, HackerRank React.js Certificate, IBM Z Fundamentals & Concepts Certification, Kaggle Gen AI Intensive Course

EXPERIENCE

Ameerz   Dec. 2024 – Present
Software Developer Intern (TypeScript, Express, React, SQL)   Mississauga, ON
- Optimized RESTful API, reducing response time by 30% and improving stability for **500+** users.
- Collaborated with 4 engineers in an Agile environment, utilizing Jira for sprint management, optimizing workflows, and accelerating feature delivery by 25%.
- Developed a key certification system for third-party verification, saving users up to **$1,000** annually and increasing adoption by 35%.

Elkor Technologies Inc   May 2023 – Aug. 2023
Software Engineer Co-op (HTML, CSS, JavaScript, Bootstrap, PHP, C#, LUA) London, ON
- Collaborated with UI/UX developer to build and maintain a new e-commerce website, improving user satisfaction and responsiveness by 30%.
- Developed **49+** dynamic product pages with a data processing script, streamlining workflows to increase operational efficiency by 25% and **saving $10,000 annually**.
- Built a custom calibration plugin for power and current monitoring, refining sensor accuracy in chip production and achieving a **95% success rate** across 50+ products.
- Automated unit testing infrastructure with Selenium IDE, **reducing reported bugs by 45%** and lowering customer support calls by 70%, enhancing QA workflows.
- Designed and launched the MCM Production Plugin using Modbus Commander API, optimizing logging configurations and increasing user satisfaction by 85%.

PROJECTS

WCS MAiSTRO
Software Developer (Python, Flask, Next.js, TypeScript, TensorFlow)
- Built an AI-driven music generator by optimizing a Transformer model to process 20,000+ midi files with GPU acceleration, boosting melody accuracy by 35% and **cutting training time by 20%**.
- Built a responsive frontend for real-time music composition with interactive editing and visualization features, achieving a 95% user satisfaction rate.
- Integrated Flask and Node.js RESTful APIs for real-time AI inference, reducing latency by 40% and ensuring low-latency model communication.

FormFixer.AI *(TypeScript, Express, React Native, Expo, Tailwind, MongoDB)*
- Built a cross-platform Android app with Expo, ensuring 100% UI/UX visual consistency.
- Integrated real-time form correction using TensorFlow Lite and OpenPose, improving AI-driven camera detection **accuracy by 25%** and speeding up feedback processing by 40%.
- Minimized compute overhead by 30% through model optimization, **saving $300/month** in GPU costs.

MERN Stack Web Development *(MongoDB, Express, React, Node, AWS)*
- Developed a full stack website for public user lists and soft match search, efficiently processing 10,000+ JSON records and securing authentication with JWT.
- Integrated RESTful APIs, delivering a cross-platform functionality and **improving performance by 25%**.
- Deployed on AWS with a CI/CD pipeline using GitHub Actions, automating deployments, reducing errors by 50%, and optimizing cloud services for 10,000+ concurrent users.
- Optimized system scalability with PuTTY and Nginx, reducing downtime by 40% and improving application performance by 20% through optimized file transfer protocols using FileZilla.