Daksh Dagar

Toronto, Canada (Open to Relocate)
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Summary

Embedded Software Engineer with strong experience developing real-time C/C++ software for mission-critical systems. Proven ability to design, test, and validate embedded solutions for hardware-integrated products, working closely with controls and hardware teams in fast-paced, Agile environments.

- **Skills**: Embedded C/C++, Real-Time Embedded Systems, ARM Microcontrollers, Multi-Core Programming, Power Electronics Software, Hardware-Software Integration, Automotive Embedded Systems, CAN / CAN FD Communication, Debugging & Validation, Agile Development, Software Requirements Traceability, Unit and Integration Testing
- **Tools**: Git, Linux, Python, GDB, JTAG, Oscilloscope, Logic Analyzer, CANalyzer, Jenkins, CI/CD Pipelines, VS Code

Experience

Pearl Lemon — London, UK
Senior Software Developer — May 2019 – June 2025

- **Embedded & Systems Development**: Developed and maintained C/C++ software for performance-critical systems, focusing on reliability, determinism, and tight hardware integration.
- **Hardware Integration & Testing**: Collaborated closely with hardware and controls engineers to test, validate, and debug software on physical systems using in-lab tools.
- **Ownership & Delivery**: Owned end-to-end software deliverables, translating system requirements into traceable implementations while operating in an Agile workflow.

Amazon.com — Bangalore, India
Software Development Engineer — Jan 2023 – June 2023

- **Mission-Critical Software**: Built and optimized low-latency C/C++ and Python components supporting high-reliability internal systems with strict performance constraints.
- **Testing & Validation**: Designed automated tests and validation checks to ensure correctness, stability, and safe operation across multiple deployment environments.
- **Engineering Rigor**: Applied strong version control, CI/CD practices, and structured code reviews to maintain quality in large, shared codebases.

Education

Schulich School of Business, York University — Toronto, Canada
Masters in Management (MMgt) — Sep 2024 – Aug 2025

Amity University — Noida, India
Bachelors in Computer Science and Engineering with specialization in AI and ML; CGPA: 8.5 — Sep 2019 – Aug 2023

Academic Projects

- **Facial Mask Recognition**: OpenCV & MobileNet; 98% accuracy. (Published)
- **Brain Tumor Detection**: Keras CNN on MRI scans; 94% accuracy.
- **Forest Fire Detection**: YOLOv4 on aerial images; 97% accuracy. (Published)
- **Blockchain Apps**: Survey on use-cases in finance, identity, supply chain.
- **JTicTacToe & InviCloak**: Android app: Game + OpenCV invisibility cloak.

Certifications & Achievements

- **Certifications**: AWS Cloud Practitioner, Product Mgmt Foundations, Web Dev Bootcamp
- **Achievements**: IMO Olympiad Winner, Regional Badminton Champ, 95.84 JEE Percentile, NDA Qualified

Leadership & Volunteering

Graduate Business Council, Schulich — Toronto, Canada
International Relations Manager — Oct 2024 – Apr 2025

- **Global Outreach**: Led student advocacy & cultural integration.

Net Impact Schulich — Toronto, Canada
Asst. Director of Operations and Technology — Oct 2024 – Apr 2025

- **Sustainability Ops**: Managed workflows and tech for impact-driven projects.