

Amal Karn

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Objective: Dynamic IT professional with a Bachelor's degree in BSc Computer Science and Information Technology (BSc. CSIT) and a Master's degree in Information Technology, specializing in Computer Networking and System Analysis. ACS-certified in ICT Project Management, Developer Programming, Software Engineering, and System Analysis.

Bringing six years of experience across technical roles, programming, hospitality, and customer service. Proficient in IT support, Python programming, and HTML/CSS.

Seeking innovative opportunities to apply my skills and knowledge in a dynamic organization.

EDUCATION

CHARLES STURT UNIVERSITY, Sydney

Master of Information Technology (MIT)

Dual Specialization (Computer Networking and System Analysis)

2017 - 2019

PRIME COLLEGE, Kathmandu, Nepal

Bachelor of Science in Computer Science and Information Technology (B. SC CSIT), TU

Specialization in Software Engineering

2010 - 2014

EDUCATION CENTER OF AUSTRALIA, Sydney

Professional Year Program

2019 – 2020

CROWN INSTITUTE OF BUSINESS AND TECHNOLOGY PTY LTD, Canberra

Diploma of Leadership and Management

2021 – 2022

NATIONAL SCHOOL of SCIENCES HIGHER SECONDARY SCHOOL, Kathmandu, Nepal

Higher Secondary Education Board (HSEB)

2007 – 2009

WORK EXPERIENCE

Software Engineer: Skykraft Pvt Ltd, Reid, ACT

October 2022 – Present Day

- Led the development of a comprehensive Inventory Management System as a Full-Stack Software Engineer.
- Developed backend using Python and MySQL database, creating APIs for item management, stock tracking, and report generation.
- Collaborated with UI/UX designers to craft responsive frontend interfaces.
- Implemented interactive GUI using Tkinter, improving user efficiency.
- Designed and optimized database schema for efficient data storage and retrieval.
- Developed optimized database queries, enhancing system performance.
- Contributed to architectural discussions, ensuring scalability and maintainability.
- Proactively identified and addressed potential bottlenecks and security vulnerabilities.
- Collaborated cross-functionally, translating technical concepts for non-technical stakeholders.
- Conducted testing, and debugging, and maintained code quality through reviews.
- Stayed updated with industry trends, enhancing expertise in HTML, CSS, JavaScript, and related technologies.
- Actively pursued skill development and innovation opportunities.
- Resulted in an efficient and user-friendly Inventory Management System, streamlining operations and enhancing productivity.

Gimbal Software Integration Engineer: Electro-Optics System-Defense System Australia (EOSDS), Hume, ACT
Jan 2022 – Oct 2022

- Installed and configured software components required for seamless gimbal functionality, ensuring compatibility and optimal performance within integrated systems.
- Expertly integrated gimbals into diverse platforms including cameras, and robotics, establishing smooth communication and collaboration among system components.
- Conducted meticulous calibration and testing of gimbals to achieve exceptional stability and accuracy across various operational scenarios.
- Developed and customized software solutions to control and manage gimbal functions, utilizing coding and scripting expertise to enhance overall performance.
- Collaborated closely with cross-functional teams of hardware engineers, software developers, and stakeholders to ensure successful gimbal integration within complex technological ecosystems.
- Diagnosed and resolved software-related issues through systematic troubleshooting and debugging, contributing to streamlined operations and minimizing downtime.
- Created comprehensive documentation detailing software installation, integration processes, calibration procedures, and troubleshooting guidelines for efficient reference.
- Employed continuous improvement methodologies, staying current with industry trends to propose and implement enhancements that elevated system performance and user experience.
- Led quality assurance efforts, conducting rigorous testing on integrated systems to verify adherence to performance standards and specifications.
- Provided user support and training, empowering teams to effectively operate, calibrate, and troubleshoot integrated gimbal systems.
- Analyzed performance data and user feedback, extracting valuable insights to drive data-driven

improvements in integrated systems' design and functionality.

- Ensured compliance with safety and regulatory standards, particularly in applications where integrated systems were utilized in safety-critical industries.
- Managed multiple projects concurrently, demonstrating strong project management skills by adhering to deadlines, coordinating resources, and delivering successful outcomes.
- Fostered collaborative problem-solving by engaging cross-functional teams to address challenges and devise innovative solutions for intricate integration scenarios.

System Maintenance Specialist: Syncreon Australia Pty Ltd, Auburn, NSW

Feb 2021 – Aug 2021

- Diagnosed and troubleshoot technical issues on BNR Advance Note Recycler machines, utilizing a comprehensive understanding of their hardware and software components.
- Analyzed complex problems to determine root causes, utilizing a systematic approach to identify and isolate issues affecting machine performance.
- Employed a combination of technical expertise and problem-solving skills to devise innovative solutions for rectifying malfunctions, both in hardware and software aspects.
- Executed hands-on repairs and optimizations on BNR Advance Note Recycler machines, utilizing tools and techniques to ensure precise and efficient restoration of functionality.
- Collaborated closely with cross-functional teams to exchange insights, discuss emerging issues, and contribute to the continuous improvement of maintenance processes.
- Conducted thorough quality assurance testing post-repair, employing meticulous attention to detail to ensure optimal machine performance and adherence to established standards.
- Compiled comprehensive documentation of diagnostic procedures, troubleshooting steps, repair processes, and testing outcomes, ensuring accurate record-keeping for future reference.
- Contributed to the development of preventive maintenance protocols, leveraging insights from recurrent issues to proactively identify and address potential problems.
- Stayed up to date with advancements in BNR Advance Note Recycler technology, consistently enhancing technical knowledge to adapt to evolving maintenance demands.
- Provided technical guidance and support to junior technicians, fostering a collaborative and knowledge-sharing environment within the maintenance team.
- Maintained a commitment to workplace safety, adhering to established protocols and promoting a culture of safety awareness during all maintenance activities.

Food Service Assistant: NSW Government Healthshare, Liverpool, NSW

Mar 2019 – June 2021

- Food preparation and food services.
- Customer services.
- Workplace Health & Safety, Compliance, and Manual Handling Principles.

- Reporting and administration.

Supervisor: Burger Head, Penrith, NSW

September 2017 – October 2019

- Staff management: training, workflows, KPIs, performance objectives, shifts.
 - Business management, reporting, and company plans and vision.
 - Monitoring employee productivity and providing constructive feedback and coaching.
 - Customer services including customer complaints management.
 - Stock management and weekly/monthly inventory.
 - Handling, storing, and distributing food and supplies.
 - Assistance in planning menus, ingredients, and food surpluses.
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Skills:

- Project Management:** Proficient in managing and leading IT projects, including planning, coordination, resource allocation, and risk assessment.
 - Software Development:** Skilled in multiple programming languages (e.g., Python, HTML/CSS) and software development methodologies (e.g., Agile, Waterfall).
 - System Analysis:** Experienced in analyzing system requirements, designing solutions, and evaluating system performance.
 - Networking:** Strong knowledge of computer networks, protocols, and network security principles.
 - Database Management:** Proficient in database design, development, and administration, with expertise in SQL and relational database management systems.
 - **Problem-solving:** Excellent analytical and problem-solving skills to identify issues, propose innovative solutions, and troubleshoot technical problems.
 - Communication:** Effective verbal and written communication skills, with the ability to convey complex technical concepts to both technical and non-technical stakeholders.
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Professional Affiliations:

- Member, Australian Computer Society (ACS)
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Professional references available upon request