




# Subash Shahi

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## Summary

Recently completing a Master of IT in Cyber Security, I am currently working as a casual resource developer at Charles Darwin University. With six years of full-stack development experience, I have advanced from a junior role to a senior engineer, successfully leading projects from conception through deployment. I possess a robust understanding of the software development lifecycle and agile methodologies, and I am highly proficient in object-oriented programming, web development, and databases. My technical expertise includes C, C++, C#, Python, ASP.NET MVC, .NET Core, MS-SQL Server, MySQL, HTML5, CSS3, jQuery, and Bootstrap. Passionate about continuous improvement, I eagerly embrace new learning opportunities and cutting-edge technologies.

## Skills

- Application design and architecture
- Frontend development: Angular, React JS, HTML5, CSS3, jQuery, Bootstrap, JSON
- Database: MS- SQL Server, MySQL, SSMS, Oracle DB
- Programming Language: C, C++, C#, Python
- .NET Technologies: ASP.NET web form, ASP.NET MVC, ASP.NET Core, .NET 6, Razor pages, SignalR, LinQ, ADO.NET, Entity framework.
- IDE: Visual Studio, VS code, Jupyter Notebook
- Version Control: AWS, Bitbucket, GitLab, GitHub, SVN
- Designing tools: Adobe Photoshop, Adobe Illustrator, Adobe XD
- API tools: SOAP UI, Postman
- Penetration testing tools: Burp Suite, Nmap, Metasploit, ZAP
- Others: Code debugging and refactoring, IIS deployment, CI/CD pipeline, Jira, Kali Linux, Cisco Packet Tracer, OS installation and troubleshooting, MSMQ, Machine learning
- Excellent communication skills
- Time management and project management skills
- Adaptability to fast-paced environments
- Team player
- Experience in utilising Azure environments for managing projects using Jira and implementing Scrum methodologies.
- Customer service excellence
- Leadership skills

## Work History

### Casual - VET Resource Developer

**Charles Darwin University** – Ellengowan Dr, Brinkin NT

March 2024 – Current

- Collaborated with lecturers and prepared learning resources and assessments as required.
- Created and managed 5+ Learnline units, ensuring seamless access and navigation for students.
- Utilised the student preview feature in Learnline to improve the learning experience.
- Conducted content, technical, and accessibility quality checks on various platforms.
- Integrated CDX chapters for Automotive within the Learnline system.
- Developed Assessor Guides, Student Unit Guides, and Assessment Tasks required for each unit.

### Cyber Security Internship

**SSRD (Software Security, Research & Development)** – Maribor, Slovenia

July 2024- October 2024

- Created CTF challenges that reflect real-world cybersecurity scenarios.
- Documented detailed walkthroughs for each challenge, clearly outlining learning objectives and solutions to enhance participant understanding.
- Developed complex, multi-step challenges requiring a deep understanding of cybersecurity principles.
- Designed challenges simulating realistic cybersecurity threats by integrating smaller, interconnected problems into a broader solution framework.
- Ensured that each challenge closely mirrored real-world vulnerabilities, providing a hands-on learning experience for participants.

### Learnline Support Internship

**Charles Darwin University (AWEsome Placement)** – Ellengowan Dr, Brinkin NT

January 2024 - February 2024

- Demonstrated reliability by consistently fulfilling work commitments.
- Showed initiative in exploring new features and technologies added in Blackboard online learning platform.
- Systematically conducted 35+ unit checks in Learnline System before releasing to production.
- Communicated openly and effectively with both the team and supervisors.
- Provided detailed and helpful comments in unit checks and reports to Lecturers.
- Demonstrated flexibility in adjusting to new tasks or work requirements.

### Senior software engineer

**Cedar Gate Services** – Kathmandu, Nepal

March 2021 - November 2022

- Developed and maintained custom data-centric US healthcare web applications using ASP.NET, C#, Silverlight, Services, and SQL Server with scrum methodology.

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- Deployed Silverlight, React, Angular projects, and services.
- Designed new tables, views on MSSQL and created stored procedures for batch processing.
- Created more than 25 technical design documentation (TDD) and 10+ deployment documents.
- Written well-designed, testable, and efficient code for applications used for claim processing.
- Facilitated training and mentorship to junior developers.
- Reviewed and approved pull requests from junior developers using version-controlling tools like Bitbucket and AWS.

#### Associate senior developer

**Inficare Pvt. Ltd** – Kathmandu, Nepal.

November 2016 – March 2021

- Designed and developed 12 customer web applications using a stack of technologies, including ASP.NET web forms, ASP.NET MVC, C#.NET, HTML, CSS, JavaScript, jQuery, Bootstrap, and MS SQL Server.
- Completed 25+ APIs from industry-leading providers related to payment processing, ID and facial verification, sanction screening, and address verification.
- Built web service for a remittance mobile app comprising 33 methods using the SOAP protocol.
- Worked as a technical expert with clients, analysts, programmers, and other team members to develop technical solutions for complex business problems.
- Successfully led 3 system migrations, ensuring seamless transitions, data integrity, and minimal disruptions to client business operations.
- Collaborated closely with the Python team to develop a proof of concept (POC) for AI facial recognition using machine learning techniques.
- Co-operated closely with the network administrative team for IIS and server configurations.

## Education

**Charles Darwin University** - Casuarina, NT

Master of Information Technology (Cyber Security)

November 2022- October 2024

**College of Information Technology and Engineering** – Kathmandu, Nepal

Bachelor of Information Technology

2012 – 2017

## Certifications

- Ethical hacking (Introduction to Ethical hacking) – LinkedIn 2024
- Developing ethical hacking tools with Python – LinkedIn 2024
- Certified Microsoft Dot Net Programmer – Broadway Infosys Nepal in 2016
- Proficiency in Information Systems Management - Aptech Computer Education in 2012

## Personal Activities

- Worked on CTF Challenge application development using .Net application for ITCode Fair 2024.  
<https://github.com/suwashah/CipherHunt/>
- Participated in National Missing Person Hackathon 2024 and GovHack 2024
- Volunteered as Team Leader in "Kindness Festival 2024" – Managed and allocated tasks for volunteers, providing regular updates to the executive members.
- Developed and implemented ML/DL for a CAN intrusion detection system as part of my IT thesis.
- Participated in Cyber Security Challenge IT code fair 2023
- Volunteered in "Kindness Shake" - Managed volunteering activities and worked with the technical team for the Kindness Shake Festival 2023, organised by Kindness Shake.
- Awarded as a runner-up in the graphic design competition in 2013 at CITE.

## References

#### Dr. Bharanidharan Shanmugam

Senior Lecturer – Information Technology

Faculty of Science and Technology, CDU

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