# Tushar Vashista

**Software Developer | Cloud Computing Specialist**

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## Professional Summary

Ambitious and technically adept Computing Science postgraduate with a strong foundation in software development and a growing expertise in cloud computing. Currently pursuing an MSc in Computing Science at the University of Glasgow, building upon a solid undergraduate degree in Computer Science from Cardiff University. Demonstrates a keen interest in leveraging cloud technologies, particularly Amazon Web Services (AWS), to develop innovative solutions. Possesses hands-on experience in full-stack development, IoT applications, and cloud-based systems. Proven ability to lead teams, manage projects, and communicate effectively with diverse stakeholders. Seeking an entry-level cloud engineering role to apply academic knowledge, further develop technical skills, and contribute to cutting-edge cloud solutions.

## Education

### University of Glasgow School of Computing Science

**MSc, Computing Science**  
September 2024 - September 2025 (Expected)

* Focusing on advanced topics in cloud computing, distributed systems, and software engineering
* Relevant coursework: [List 2-3 relevant courses you expect to take]

### Cardiff University

**BSc, Computer Science**  
September 2020 - June 2024

* Graduated with Second Class Honours, Upper Division (2:1) - 66%
* Key modules: [List 4-5 relevant modules, especially those related to cloud computing or software development]
* Final Year Project: [Brief description of your project, especially if relevant to cloud computing]

### Amity Global School, Gurugram, Haryana, India

**International Baccalaureate Diploma Programme**  
August 2018 - May 2020

* Total Score: 33/45
* Higher Level: Physics (6), Mathematics (4), English (5)
* Standard Level: Business Management (7), Computer Science (4), French Ab Initio (5)
* Extended Essay: Business Management (Grade B)
* Theory of Knowledge: Grade C

### Pathways World School

**International Baccalaureate Middle Years Programme (IB MYP)**  
August 2014 - May 2018

## Professional Experience

### Development and Delivery Officer

**Cardiff University / Prifysgol Caerdydd**  
August 2022 - August 2023 (1 year 1 month)  
Cardiff, Wales, United Kingdom

* Designed and delivered engaging computer science workshops to diverse audiences, including students, teachers, and adult learners in various educational settings.
* Collaborated closely with Technocamps to develop curriculum-aligned content aimed at inspiring young learners in STEM fields.
* Created and facilitated hands-on workshops covering a wide range of technologies:
  + Python programming fundamentals and advanced concepts
  + Hardware programming with Raspberry Pi and Microbits
  + Robotics using Lego Wedo kits
  + Web development essentials (HTML, CSS)
  + Game development using Python
* Conducted Continuing Professional Development (CPD) sessions for teachers, focusing on interactive and effective methods for teaching computer science.
* Developed assessment tools to measure the impact of workshops on participants' learning outcomes.
* Adapted workshop content to suit different age groups and skill levels, ensuring accessibility and engagement for all participants.

### Summer Internship

**Robotech Labs**  
June 2019 (1 month)  
Delhi, India

* Participated in an intensive summer apprenticeship program at the Indian Institute of Technology Delhi, in collaboration with Robotech Labs.
* Gained comprehensive exposure to cutting-edge technologies including Internet of Things (IoT), Machine Learning, and Cloud Computing.
* Engaged in daily lectures, hands-on lab sessions, and collaborative projects to reinforce theoretical concepts with practical applications.
* Contributed to a team project developing a smart car parking system:
  + Utilized Amazon Web Services (AWS) to create and manage cloud-based server instances.
  + Implemented IoT sensors for real-time parking space monitoring.
  + Developed a user interface for parking space reservation and management.
  + Integrated machine learning algorithms for predictive analytics on parking patterns.
* Presented the project findings and demonstration to a panel of industry experts and academics.

### Summer Intern

**HGS (India) Limited**  
June 2018 - July 2018 (2 months)  
Gurugram, Haryana, India

* Completed a comprehensive internship within the Information Technology (IT) Department of a global business process management company.
* Acquired practical knowledge in key areas of IT infrastructure and operations:
  + Networking: Studied network topologies, protocols, and security measures used in corporate environments.
  + Database Management: Learned SQL basics and practiced database design, querying, and maintenance.
  + Java Programming: Developed foundational skills in Java, focusing on object-oriented programming concepts and basic application development.
* Shadowed IT professionals to understand the practical applications of technologies in solving real-world business challenges.
* Participated in daily stand-up meetings and weekly project reviews, gaining insight into agile methodologies in IT project management.
* Completed a mini-project demonstrating the integration of networking, database, and programming skills in a business context.

## Technical Skills

* **Programming Languages**: Python (Advanced), Java (Intermediate), JavaScript (Basic), SQL (Intermediate)
* **Web Technologies**: HTML5, CSS3, Flask, RESTful APIs
* **Cloud Platforms**: Amazon Web Services (AWS) - EC2, S3, Lambda, CloudFormation
* **Databases**: MySQL, PostgreSQL, MongoDB (basic)
* **Version Control**: Git, GitHub
* **IoT**: Arduino, Raspberry Pi
* **Other Tools**: MATLAB, Arduino IDE, Jupyter Notebooks

## Projects

### Smart Car Parking System (Robotech Labs Internship Project)

* Developed a cloud-based smart car parking system using AWS EC2 instances as servers.
* Implemented IoT sensors for real-time parking space monitoring using Arduino and Raspberry Pi.
* Created a web-based user interface for parking space reservation and management using Flask and HTML/CSS.
* Integrated basic machine learning algorithms for predicting parking space availability based on historical data.

### [Your University Final Year Project or Any Other Significant Project]

* [Detailed description of the project, technologies used, your role, and outcomes]

## Leadership and Extracurricular Activities

### Student Council President

**Amity Global School**  
August 2018 - May 2019

* Led a team of 10 student council members to organize school-wide events and initiatives.
* Served as the primary liaison between the student body and school administration, addressing student concerns and proposing solutions.
* Successfully planned and executed major school events, including the annual cultural fest and sports day, managing budgets and coordinating with external vendors.
* Implemented a new student feedback system, resulting in a 30% increase in student participation in school improvement initiatives.

### Editorial Board Member

**Student Council of Amity Global School**  
August 2017 - May 2018

* Contributed to the creation and editing of the weekly school newsletter, reaching over 1000 students and staff.
* Wrote feature articles on school events, student achievements, and educational trends.
* Collaborated with a team of 5 to design and layout the newsletter using Adobe InDesign.

## Certifications and Awards

* AWS Certified Cloud Practitioner (Expected completion: [Month, Year])
* Programming for Everybody (Getting Started with Python), University of Michigan (June 2019)
* International Award for Young People (Bronze Level), The Duke of Edinburgh's Award International Association (June 2018)
* International Global Citizens Award Programme (Silver Level), Global Citizen Awards (July 2018)
* International Global Citizens Award Programme (Bronze Level), Global Citizen Awards (July 2015)

## Additional Skills and Interests

* **Languages**: English (Fluent), Hindi (Native), French (Basic)
* **Soft Skills**: Public speaking, team leadership, conflict resolution, time management
* **Interests**:
  + Solving complex puzzles and riddles to enhance problem-solving skills
  + Participating in hackathons and coding competitions
  + Outdoor activities including rock climbing, rappelling, and river rafting
  + Contributing to open-source projects related to cloud computing and IoT

## References

Available upon request