

# Amogh Karankal

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## PROFILE

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A Computer Engineering graduate and an AWS Certified Developer - Associate. I am looking for a suitable job opportunity while contributing and learning in a fun and challenging environment.

## EDUCATION

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<b>VJTI, University of Mumbai</b> <i>Bachelor of Technology (Computer Engineering)</i> Courses completed: <ul style="list-style-type: none"><li>• Cyber Security</li><li>• Database Management System</li><li>• Open Source Computing/Programming Lab</li><li>• Cloud Computing</li><li>• Big Data Analytics</li><li>• Machine Learning</li><li>• Computer Networks</li></ul>	CGPA: 6.41/10	2018 – 2022 Mumbai, India
<b>D.A.V Public School</b> CBSE Std XII	90.8%	07/2017 – 03/2018 Pune, India
<b>D.A.V Public School</b> CBSE Std X	CGPA: 9.8/10	03/2015 – 03/2016 Pune, India

## TECHNICAL SKILLS

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### Programming languages:

Python, C++

### Security Tools

SIEM (Splunk), Wireshark, Nessus, Microsoft Windows Defender, Windows Firewall, Kali Linux

### Public Cloud:

Amazon Web Services, EC2, Elastic Load Balancer (ELB), Virtual Private Cloud (VPC), S3, IAM, Relational Database Service, (RDS), Microsoft Azure

### Security Concepts:

Threat detection, Incident detection and response, Vulnerability assessment, SIEM, network security and protocols, familiarity with intrusion detection systems and data encryption, Understanding of cloud security principles

### Operating Systems:

Linux/Ubuntu, Windows 8/10/11

### Data Analytics:

Microsoft Power BI, Tableau

## CERTIFICATIONS

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**Google Cybersecurity** [!\[\]\(529949c2c3dadbaa4e538e8c643454bc\_img.jpg\)](#)

Sept, 2023 - Dec, 2023

**AWS Certified Developer Associate (DVA-C02)**



Nov, 2022 - Nov, 2025

**Microsoft Certified: Identity and Access**

**Administrator Associate (SC-300)** [!\[\]\(de95854c7ee024cfadc48187bbb781b2\_img.jpg\)](#)

July, 2024 - July, 2026

**Microsoft Certified: Security, Compliance, and Identity Fundamentals (SC-900)** [!\[\]\(6059a5aa8b4ca7bb793408023d6c6e42\_img.jpg\)](#)

July 2023

**Microsoft Certified: Azure Fundamentals (AZ-900)** [!\[\]\(6a9b39b98eb945faa14c645ec99e4eaa\_img.jpg\)](#)

Jul, 2022

## PROJECT EXPERIENCE

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**Cyber security Internship (VJTI)**

06/2021 – 12/2021

- Identified and analyzed various OWASP vulnerabilities, enhancing understanding of web security risks
- Conducted vulnerability assessments using Nessus, pinpointing security weaknesses
- Utilized Metasploitable VM to simulate and demonstrate common exploits
- Developed remediation strategies to mitigate detected vulnerabilities
- Authored a detailed vulnerability assessment report, outlining security findings and preventive measures

**Secure Communication System**

06/2021 – 05/2022

- Researched and implemented AES-256 encryption and Diffie-Hellman key exchange for secure communication
- Established encrypted messaging between users, ensuring confidentiality and integrity
- Applied AES-256 for message encryption and Diffie-Hellman for secure key exchange
- Utilized Wireshark for real-time network packet analysis, monitoring communication security

**Red Wine Quality Prediction**

12/2021 – 01/2022

- The purpose of the project is to predict the quality of red wine on a scale of 0–10 when given a set of features as inputs.
- The “Wine Quality Data” dataset from UCI Machine Learning Repository is used to achieve this purpose.
- The higher the value the better the quality.
- We have applied 2 machine learning algorithms, Random Forest Classifier and Stochastic Gradient Descent.

## LANGUAGES

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English • Hindi • Marathi