



## ► Homkar Akshay Dilip

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Near Namdev Mandir, Karad.-415110  
Taluka-Karad, District-Satara  
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### Objectives

Assistant Professor looking for a position at a institute, where I can apply my teaching experience, STEM-oriented instruction, technology, and curriculum development skills to support student growth and success.

### Education

- M.E. in Computer Engineering, from JSPMS's Jayawantrao Sawant College of Engineering, Hadpsar, Pune with First class with Distinction 8.110 CGPA in final year October 2017.
- B.E in Information Technology from P.V.P. Institute of Technology, Budhgaoan, Sangli with First class with Distinction 66.86% in final year November 2007.
- Diploma in Electrical Engineering with First class, 62.23% from Govt. Polytechnic, Karad in May 2004.
- SSC Passed in Second class, 56.53% from Tilak High school, Karad in March 2000.

### Projects

- Online Examination Management System for Online Examination.
- Management Information System (MIS) for College and School.
- Reveal IP Spoofers Location from Route Backsatter and Passive IP Traceback (NS-3)
- Railway Announcement System Using GPS ( final year) Duration: 1 Year, Team size: 4 Tools: JDK, Rational Rose, Microsoft SQL server 2000, GPS Toolkit
- Mini Project (Third Year): Library Management System Duration: 1 Month, Team size: 4 Tools: VB, MS Access, Windows.

- Design, Development and Maintenance of Government Polytechnic, Karad's website.
- Design, Development and Maintenance of Examination Center Management System web application.
- Design, Development and Maintenance of Government Polytechnic, Karad's Regional Assessment web application.

## Experience

**Assistant Professor and Head, Computer Center** (01/07/2023 – Till Date)  
KES's Rajarambapu Institute of Technology (A/P-Rajaramnagar, Sakharale Islampur, Sangali - 415414)

### Responsibilities Handled:

- Teaching.
- Instruction in Laboratory.
- Student's practical assessment and evaluation.
- Developing learning resources and laboratory development.
- Assisting in departmental administration.
- Network Management and Administration.
- Installation and Maintenance of Wi-Fi Network in the Campus.
- Installation and Management of UTM (Sophos).
- Installation and Management of CCTV in the Campus.
- Installation and Management of Core Switch and other manageable switches.
- Development and Management of College Website.
- Management of Mail Server, MS Team.
- Development and Management of Intranet applications (Moodle, DVS, Hall Booking system, exam block management system etc.).
- Role in Software and Computer and Networking Hardware Procurement
- Coordination in AICTE Online committee
- Coordination in Online activities
- Coordination in NAAC/NBA Committee visit activity

**Assistant Professor and Head, Computer Center** (01/07/2022 – 31/05/2023)

KES's Rajarambapu Institute of Technology (A/P-Rajaramnagar, Sakharale Islampur, Sangali - 415414)

**Responsibilities Handled:**

- Teaching.
- Instruction in Laboratory.
- Student's practical assessment and evaluation.
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- Network Management and Administration.
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- Management of Mail Server, MS Team.
- Development and Management of Intranet applications (Moodle, DVS, Hall Booking system, exam block management system etc.).
- Role in Software and Computer and Networking Hardware Procurement
- Coordination in AICTE Online committee
- Coordination in Online activities
- Coordination in NAAC/NBA Committee visit activity

**Assistant Professor** (15/07/2021 – 31/05/2022)

KES's Rajarambapu Institute of Technology (A/P-Rajaramnagar, Sakharale Islampur, Sangali - 415414)

**Responsibilities Handled:**

- Teaching.
- Instruction in Laboratory.
- Student's practical assessment and evaluation.

- Developing learning resources and laboratory development.
- Assisting in departmental administration.

**Assistant Professor** (18/06/2017 – 30/06/2021)

Dnyanshree Institute of Engineering and Technology (A/P-Sonwadi-Gajavadi, Sajjangad Road, Satara - 415013)

**Responsibilities Handled:**

- Teaching.
- Instruction in Laboratory.
- Student's practical assessment and evaluation.
- Developing learning resources and laboratory development.
- Assisting in departmental administration.
- Curriculum designing of Web and Network related courses
- Network Management and Administration.
- Installation and Maintenance of Wi-Fi Network in the Campus.
- Installation and Management of UTM (pfsense).
- Installation and Management of Core Switch and other manageable switches.
- Management of College Website.
- Management of Mail Server.
- Installation and Management of Intranet applications (Library Software, Moodle, Own Cloud, etc.).
- Establishment and Management of Computer Center having 72 Computers.
- Consultancy and Testing Computer and Networking Equipment's.
- Role in Software and Computer and Networking Hardware Procurement
- Role in First Year Admissions Process
- Coordination in University Online activities
- Coordination in Placement Examination
- Developed MIS application for college and School.

**Subject Taught :**

- Computer Hardware and Networking
- Network Technology
- Advanced Database System
- HTML
- Scripting Languages
- Storage Area Network
- Cyber Laws

- Computer Networks
- Distributed System

**System Analyst** (11/08/2014 –11/04/2017)

Government College of Engineering, Karad (A/P-Vidyanagar, Saidapur, Karad - 415124)

**Responsibilities Handled:**

- Network Management and Administration.
- Played major role in Campus Wide Networking implementation under TEQIP-II Project (Budget 1.5 Crore) having Data Center and RDC (Documentation, Design and Implementation).
- Installation and Maintenance of Wi-Fi Network in the Campus.
- Installation and Management of UTM (Cyberoam and Websense).
- Installation and Management of Core Switch and other manageable switches.
- Management of College Website.
- Management of Mail Server.
- Installation and Management of Intranet applications (Library Software, Moodle, Own Cloud, etc.).
- Establishment and Management of Computer Center having 150 Computers.
- Integration of Payment Gateway.
- Consultancy and Testing Computer and Networking Equipments.
- Role in Software and Computer and Networking Hardware Procurement
- Role in First year Admissions Process
- Management of DTE-MIS, Institute MIS, AISHE
- Coordinator in UGC committee
- Coordination in University Online activities
- Coordination in Placement Examination
- Coordination in NBA Committee visit activity
- Teaching.
- Instruction in Laboratory.
- Student's practical assessment and evaluation.
- Developing learning resources and laboratory development.
- Assisting in departmental administration.
- Curriculum designing of Web and Network related courses

**Subject Taught :**

- Advanced Unix System
- Web Technology
- Scripting Languages

**Visiting Lecturer** (01/07/2009 –23/03/2014)

Government Polytechnic, Karad (A/P-Vidyanagar, Saidapur, Karad - 415124)

**Responsibilities Handled:**

- Teaching.
- Instruction in Laboratory.
- Student's practical assessment and evaluation.
- Developing learning resources and laboratory development.
- Assisting in departmental administration.
- Network Management and Administration.
- Installation and Maintenance of Wi-Fi Network in the Campus.
- Development and Management of College Website.
- Development and Management of Examination Center Management System
- Development and Management of Regional Assessment Center Management System

**Subject Taught :**

- Network Management and Administration
- Computer Network
- Computer Architecture and Maintenance
- Visual Basic
- Computer Fundamentals
- Computer Workshop

**Customer Support Engineer** (14/02/2008 –31/05/2008)

AARGEE SYSTEMS (Neutral Service Provider for HP), (Tilak Road, Pune)

**Responsibilities Handled:**

- Troubleshooting for Desktops, Workstation and Servers.
- Installation (Desktops, Workstation and Servers).
- LAN Connectivity.

## Certifications

Sr. No.	Name of Topic for FDP/STTP/Certification course	Organizing Institute	Mode	Year of Certification
1	Current Trends and Future Opportunities in Cloud Computing and Big Data	Government College of Engineering, Karad	STTP-Offline	15-12-2014 to 19-12-2014
2	Recent Trends, Challenges and Opportunities in e-Governance	Government College of Engineering, Karad	STTP-Offline	11-05-2015 to 15-05-2015
3	Advanced Techniques to Write and Present Research Paper	JSPM's Jaywantroa Sawant College of Engineering, Hadapsar Pune	One Day Workshop	22-09-2015
4	Pedagogy to Synergogy - An Innovative strategy for Progressive	Government College of Engineering, Karad	STTP-Offline	30-05-2016 to 03-06-2016
5	Python Programming	RWMCT's Dnyanshree Institute of Engineering and Technology	FDP	16-02-2018
6	Creating Open Source Cloud based Gnomio Moodle of your own Subject for OBE	AICTE-UKIERI, DYPCOE, Akurdi (online)	Online	2019
7	Comp TIA Security+ Certification (SY0-401)	Udemy (online)	Online	2019
8	Learn Linux in 5 days and Level up your Career	Udemy (online)	Online	2020
9	The Ultimate Dark Web, Anonymity, Privacy & Security Course	Udemy (online)	Online	2020
10	Digital Forensics and Security Research	Govt. College of Engineering, Karad (TEQIP-III)	Online	25th Apr 2020 to 29th Apr 2020

<b>11</b>	Industrial IoTs, Industry 4.0 & Disruptive Technologies	Dr. B. A. Technological University, Lonere (Maharashtra) and Sponsored by TEQIP-III	Online	May 05-10, 2020
<b>12</b>	Autopsy Basics and Hands On (8-Hours)	Basis Technology	Online	2020
<b>13</b>	Beginner PHP and MySQL Tutorial	Udemy (online)	Online	2020
<b>14</b>	Network Forensics	Linkedin Learning	Online	2020
<b>15</b>	Learning Path: Wireshark - The Advanced Network Analysis Tool	Udemy (online)	Online	2020
<b>16</b>	NetSim Webinar – BATU	TETCOS Ltd	Online	13th May 2020
<b>17</b>	National CoE Webinar on "DIGITAL FORENSICS..... Recent developments, career building"	DSCI	Online	15th May 2020
<b>18</b>	One Week Online Workshop on NAAC Accreditation Process	PES Modern College of Arts, Science and Commerce (Autonomous) Shivajinagar, Pune - 411005	Online	15 April 2021 to 22 April 2021
<b>19</b>	Webinar on NEP-2020	SGMCOE, Mahagaon	Online	28 April 2021 to 30 April 2021
<b>20</b>	Webinar on Quality Sustenance in Higher Educational Institutions	AISSMS College of Engineering, Pune-01	Online	10 May 2021
<b>21</b>	Cyber Security and Incident Analysis: A Practical and Investigative approach	ATAL	Online	Sep-2021
<b>22</b>	Getting Started With CSI Linux	CSI Linux	Online	Nov-2021



<b>23</b>	IIEECP	IUCEE	Online	Spring 2022
<b>24</b>	FDP: Elevated Analytics: Blockchain Deals with Big Data	NIT, Warangal	Online	August -2022
<b>25</b>	Double Your Web Hacking Rewards with Fuzzing	Infosys Springboard	Online	Jan 2022
<b>26</b>	Web Security	Infosys Springboard	Online	Mar 2022
<b>27</b>	Two days Induction Program	RIT	Offline	Dec-2022
<b>28</b>	Intrusion Detection: Best Practices	Infosys Springboard	Online	APR – 2023
<b>29</b>	Network Survey & Extraction: Network Analysis	Infosys Springboard	Online	APR – 2023
<b>30</b>	The Modern Angular Bootcamp	Udemy	Online	June – 2023
<b>31</b>	Curriculum framework in line with NEP 2020, OBE and AI Advancements	Internal Quality Assurance Cell (IQAC) in association with The Kerala State Higher Education Council	Online	October 2023
<b>32</b>	Research Methodology using ChatGPT & AI tools and Funding Opportunities for Research	Internal Quality Assurance Cell (IQAC) in association with The Kerala State Higher Education Council	Online	December 2023
<b>33</b>	Google Cybersecurity Certificate	Coursera	Online	December 2023

## Skills

- Network Security (Tails, Quebes, Firewall – Pfsense, OPNSense, Zeroshell, Wireshark, NMAP, Port Scanner)
- HTML, PHP (Core, Laravel, CodeIgniter), MySQL
- Linux Server : Cent OS, Ubuntu (Installation, Management, Customization)
- Windows Server : 2008 / 2012 / 2016 (Installation, Management, Customization)
- Digital Forensic (Autopsy, FTK Imager, Magnet RAM Capture, Wireshark)

## Paper Publications:

Sr. No.	Title of Paper	Type Of Research	Name Of Authority	Year Of Approval	Status
1	Effective Conduction of Laboratory Courses in Online Learning using Virtual Lab	Paper	JEET	2023	Published
2	Smart Garbage Management System	Paper	IUCEE- Mini-Symposium	2022	Published
3	CYBERATTACK: ABNORMAL BEHAVIOUR DETECTION AND NETFLOW MONITORING WITH CEPH	Paper	Kalasarovar journal	2021	Published
4	Data Auditing using TPA	Paper	Kalasarovar journal	2021	Published
5	HYBRID ANOMALY INTRUSION DETECTION SYSTEM	Paper	Kalasarovar journal	2021	Published

6	MIS based School Administration System	Paper	International Journal of Scientific Development and Research (IJSDR)	2019	Published
7	Reveal IP Spoofers Location from Route Backscatter and Passive IP Traceback	Paper	International Journal of Science and Research (IJSR)	2017	Published
8	Reveal IP Spoofers Location from Route Backscatter and Passive IP Traceback	Review	International Journal of Emerging Science and Engineering (IJESE)	2016	Published

### Personal Profile:

**Name** : Akshay Dilip Homkar  
**Date of Birth** : 10<sup>th</sup> August 1985  
**Gender** : Male  
**Father's name** : Dilip Dnyanoba Homkar  
**Marital Status** : Married  
**Language Known** : English, Hindi, Marathi  
**Permanent Address** : Dnyan-Ganga, 46, Shukrawar Peth, Near Namdev Mandir, Karad-415110, Dist- Satara Maharashtra.  
**Mobile Number** : +918275278587  
**Email Address** : homkarad@gmail.com

### Declaration:

I hereby declare that the information furnished above is true to the best of my knowledge.

**DATE:**

**PLACE:**

**[Homkar Akshay Dilip]**