

# ARUNKUMAR

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## Work Experience

### Gokaraju Rangaraju Institute of Engineering and Technology (Affiliated to JNTU)

Technical Trainer, Moodle Incharge and Examly Platform Coordinator @ T&P Cell

Hyderabad, Telangana

Dec.2021-present

### Central University of Karnataka (Established by an Act of Parliament, MHRD, Govt)

Assistant Professor, Dept. of CSE, Contractual

Kalaburagi, Karnataka

Aug.2017 - Dec 2021

### AMC Engineering College (Affiliated to Visvesvaraya Technological University)

Asistant Professor, Dept of CSE

Bengaluru, Karnataka

Jan. 2015 - Aug. 2017

## Education

### Ph.D (Pursuing)

Part time - AMCEC Research Center, Visvesvaraya Technological University

Bengaluru

2017-present

### M.Tech in Computer Science & Engineering

AMC Engineering College (Affiliated to Visvesvaraya Technological University)

Percentage: 81%

Bengaluru, Karnataka

2012-2014

### B.Tech in Information Science & Engineering

City Engineering College (Affiliated to Visvesvaraya Technological University)

Percentage: 75%

Bengaluru, Karnataka

2008-2012

### PUC (12<sup>th</sup>)

Govt. PU College, Bhimarayangudi (Dept. of Pre University Education, Karnataka)

Percentage: 66.33%

Shahapur, Karnataka

2006-2008

### SSLC (10<sup>th</sup>)

Santhapala High School (Karnataka Secondary Education Examination Board)

Percentage: 80%

Shahapur, Karnataka

2005-2006

## Other Qualifications

**UGC-NET** National Eligibility Test Qualified in 2018

**K-SET** Karnataka State Eligibility Test for Lecturership Qualified in 2017

## Skills

<b>Programming</b>	C, JAVA, Python, C++, LaTeX, Arduino, C#
<b>IDE</b>	Codeblocks, Visual Studio Code, Spyder, Anaconda, Jupyter Notebook, Eclipse
<b>Back-end</b>	MYSQL, MongoDB, Django, REST API, PHP, Perl
<b>Front-end</b>	HTML5, Wordpress, CSS, Javascript, Angular JS
<b>Languages</b>	English, Kannada, Hindi, Telugu

## Achievements

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- “Implemented MOODLE Learning Platform @ GRIET” (<http://grietmoodle.com/moodle>) for 1st and 2nd year students and got appreciation letter for the same.
- “Served as a Technical Trainer for lamNeo Examly Coding platform with admin roles @ GRIET” for 2nd year training program.
- “Mentor in SMART INDIA HACKATHON 2017” at Noida, Delhi, Organized by MHRD. Govt. of India
- “Best Performer Felicitation” in the Dept. of CST by Honorable VC and Pro VC of Central University of Karnataka for the academic year 2017-18
- “Developed Central Library Website” for Central University of Karnataka.
- “Produced 100% results in VTU External Examinations” for the Subjects Programming in C++, Data Structures & Applications and Programming the web at AMC Engineering College, Bengaluru

## Experience with Moodle LMS & As a Technical Trainer

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### GRIET, Training and Placement Cell

Moodle Deployment, Configuration, Administration

Hyderabad

2022 – 2024

- Implemented **Moodle for first-year C Programming and Data Structures lab programs** with multiple test cases for hands-on coding practice.
- Maintained and enhanced Moodle with features to **restrict multiple logins and control access via IP filtering**.
- Created **Python training content and led online sessions** for first-year students using Moodle.
- **Upgraded coding questions by hiding test cases and using code stubs** in Moodle to promote logical thinking.
- Developed and delivered a comprehensive Java training course for second-year students, conducting weekly in-person sessions for 200–250 students.
- Redesigned the Moodle front page for user-friendly navigation and integrated a **new announcement section**.
- **Created Java academic lab coding problems in Moodle** with custom test cases and auto-evaluation.
- Conducted hands-on workshops for Java lab faculty on using Moodle, creating test cases, and conducting lab exams via Moodle.
- Conducted preliminary **Java foundation sessions three times a week for 200–300 students on campus**, prior to company-specific training.
- Conducted mock company assessments and Python tests for first-year students in Moodle.

### GRIET lamNeo Examly Coding Platform. <https://griet251.examly.io/login>

Hyderabad

Chief Technical Trainer – Java Programming, DSA with Java

2024 – Present

- Delivered Java programming training for second-year students on the lamNeo Examly platform, covering multiple levels of the courses.
- As Chief Content Manager on the lamNeo platform, **oversaw the verification of coding problems**, including test cases, constraints, and inconsistencies in problem descriptions and solutions.
- Performed administrative tasks on the lamNeo Examly platform, including enrolling students into courses, scheduling coding problems, conducting weekly coding assessments, and maintaining performance reports.

## Subjects Handled (Academic Yearwise)

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2021-22	Principles of Problem Solving, PPS Lab, Data Structures, Data Structures lab
2020-21	Visual Programming with Lab, Scientific Writing Lab, Multimedia Communications, Embedded Systems
2019-20	Operating Systems, ADA with Lab, Adv Java with Lab
2018-19	Machine Learning with Lab, Java Programming, Data Structures with lab
2017-18	Information Security with lab, Web Programming, Cyber Physical Systems Lab
2016-17	Internet of Things, ADA with Lab, Machine Learning with Lab, Operating Systems, Computer Networks-I
2015-16	Management and Entrepreneurship, ADA, Programming the Web
2014-15	OOPs with C++, Programming in C++, Computer Networks-II

## Academic Activities

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- 2021** MOODLE Coordinator, for Dept. of CSE, Gokaraju Rangaraju Institute of Engineering and Technology
- 2020** Prepared "ASP.NET Lab Course", for Dept. of CST, Central University of Karnataka
- 2019** Prepared "Advanced Java Lab Course", for Dept. of CST, Central University of Karnataka
- 2018** Prepared "Information Security Lab Course", for Dept. of CST, Central University of Karnataka
- 2018** Prepared "Data Structures Lab Course", for Dept. of CST, Central University of Karnataka
- 2018** Coordinator, Python Workshop, Central University of Karnataka
- 2018** Curriculum Development Committee Member, Int. M.Tech, Dept. of CST, Central University of Karnataka
- 2017** Prepared "Machine Learning Lab Course", for Dept. of CST, Central University of Karnataka
- 2017** Conference Proceedings Editor, ICPCN 2017, AMC Engineering College
- 2017** University Examination Coordinator, Dept. of CSE, AMC Engineering College
- 2016** NAAC Coordinator, AMC Engineering College
- 2016** Conference Proceedings Editor, ICACT 2016, Dept. of CSE, AMC Engineering College
- 2016** LIC (Local Inspection Committee) Coordinator, AMC Engineering College
- 2015** Conference Proceedings Editor, ICCNIP 2015, Dept. of CSE, AMC Engineering College

## Publications

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- "Security Framework for Near Field Communication Enabled Devices and it's Applications- A Survey" International Journal of Management, Technology and Engineering (IJMTE) Volume 9 Issue 5, UGC No: 45550, ISSN No: 2249-7455
- "LEAF Automation using Near Field Communication" International Journal of Engineering Research and Technology (IJERT) Volume 5 Issue 19, ISSN No: 2278-0181
- "Touch Driven Interaction Via NFC Enabled Smartphone" International Journal of Innovative Research in Computer and Communication Engineering (IJRCCE) Volume 2 Issue 4, ISSN No:2320-9801

## Research Interests

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Near Field Communication, Internet of Things, Information Security, Machine Learning

## FDP/Workshops attended

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- "A+ Certificate" from Infosys FDP 4.0 held at RMK Engineering College, Chennai
- Attended the Wipro Certified Faculty training program on Wipro's Project Based Learning framework in Java FullStack.
- "FDP on Data Analytics using SPSS" held at Central University of Karnataka, Kalaburagi
- Conducted "Cyber Physical Systems Lab" at IIT Hyderabad for the students of CST Dept., Central University of Karnataka, Kalaburagi
- "Software Testing and Quality Analysis" workshop conducted by Sumadhava Technologies at AMC Engineering College, Bangalore
- "Raspberry Pi" workshop at AMC Engineering College, Bangalore
- "Introduction to C# and ADO.NET Programming" workshop at AMC Engineering College, Bangalore

## Paper Presentations

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- "Smart Control for Internet of Things Using NFC based Applications" (ICCTCSE 2014), AMC Engineering College, Bengaluru
- "Implementation of Session Passwords for Authentication Schemes" (ICACIT 2013), AMC Engineering College, Bengaluru

## Academic Projects

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## Security Framework for NFC enabled devices and it's applications

(Ph.D)

2017-present

- The Near Field Communication (NFC) is an emerging technology that targets communication between two electronic devices within 10 to 20 centimeters.
- NFC services are subject to store and manage user's private and monetary information, So the security of NFC is to be analyzed.
- The objective is to propose a security framework to prevent various attacks on Near Field communication and also to explore multiple NFC service domains such as NFC tags, NFC SE's and communication.

## Smart Control for IoT (Internet of Things) Using NFC Based Applications.

(M.Tech)

2014

- NFC is an extension of RFID i.e. it is capable of two way communication. Hence it is suitable for more complex interactions such as card Emulation for payments.
- Integration of NFC technology with smart phones which consists of mobility, high processing power, internet access ability has a great potential to bring new opportunities in our lives.

## Resilient Online Coverage for Surveillance Applications

(B.Tech)

2012

- Aims at rapidly restoring field coverage under unexpected sensor failures in an energy-efficient manner.
- Resilient Online Coverage (ROC) framework allows every sensor to control the degree of redundancy and surveillance in its region according to current network conditions.

## Projects Guided (PG)

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### A New Age Encryption Technique to Conceal IOT based data through steganography and blockchain

*Integrated M.Tech*

Saiteja Reddy (2015IEN01), Dept. of CST, Central University of Karnataka

2020

### Machine Learning Methods for Disease Prediction with Claims Data

*Integrated M.Tech*

Priya Mane (2014IEN09), Dept. of CST, Central University of Karnataka

2019

### Perceiving & Analyzing High Impact of Weather Change on Transport in Urban Regions

*Integrated M.tech*

Priyanka Reddy (2014IEN10). Dept. of CST, Central University of Karnataka

2019

### MCA Result Processing System

*MCA*

Nikitha D H (2017MCA15), School of Computer Science, Central University of Karnataka

2019

### Privacy Characterization and Quantification in Data Publishing

*MCA*

Pooja K (2016MCA16), School of Computer Science, Central University of Karnataka

2019

### A Knowledge based Resource Discovery for Internet of Things

*Integrated M.Tech*

Deepa Jalihal (2013IEN12), Dept. of CST, Central University of Karnataka

2018

### Secured data sharing in Cloud Computing using Revocable Storage Identity based Encryption

*Integrated M.Tech*

Geeta Uppalli (2013IEN15), Dept. of CST, Central University of Karnataka

2018

### Low overhead and High precision Prediction Model for content based Sensor Search in IoT

*Integrated M.tech*

Preeti Harsoor (2013IEN25), Dept. of CST, Central University of Karnataka

2018

### SoloT: Towards a user centric IoT based Service Framework

*Integrated M.tech*

Shivaleela (2013IEN34), Dept. of CST, Central University of Karnataka

2018

### Multi criteria IoT Resource Discovery

*Integrated M.tech*

Shruti Wali (2013IEN36), Dept. of CST, Central University of Karnataka

2018

### Price Prediction of Bitcoin and Ethereum using Machine Learning

*Integrated B.tech*

Gaurav Chatterjee(2014IEN07), Dept. of CST, Central University of Karnataka

2018

## Projects Guided (UG)

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### Crypto Currency System powered by Blockchain Technology

Saiteja Reddy (2015IEN01), Dept. of CST, Central University of Karnataka

*Integrated B.Tech*

2019

### Price Prediction of Bitcoin and Ethereum using Machine Learning

Gaurav Chatterjee(2014IEN07), Dept. of CST, Central University of Karnataka

*Integrated B.tech*

2018

### Cyber Bullying Detection based On Semantic Enhanced Marginalized De-Noising AutoEncoder

Priya Mane(2014IEN09), Dept. of CST, Central University of Karnataka

*Integrated B.tech*

2018

### Patient Health Monitoring System

Supriya Hosmani (2014IEN13), Dept. of CST, Central University of Karnataka

*Integrated B.tech*

2018

### Language Identification using Deep Neural Network

Karthikeya Singh (2014IEN08), Dept. of CST, Central University of Karnataka

*Integrated B.tech*

2018

## Extracurricular Activities

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### Trainer for IEEE Student Branch

School of Engineering, Central University of Karnataka

*Kalaburagi*

Oct. 2019

- Conducted one day workshop on wheebox employability skill test for final year students

### Volunteer for IEEE Student Branch

School of Engineering, Central University of Karnataka

*Kalaburagi*

Oct.2019

- Conducted Online Open quiz as a part of IEEE day Celebration

### Culturual Coordinator - ANKUR Fest

School of Engineering, Central University of Karnataka

*Kalaburagi*

Jan.2019

### TECH MANIA QUIZ

AMC Engineering College

*Bengaluru*

May. 2017

- awarded first prize in Tech mania quiz event during MELANGE Fest.

### VTU Lab External Examiner

T.John Institute of Technology

*Bengaluru*

May. 2016

- Appointed as an examiner for practical examination for the subject EC and LD Lab

### VTU Lab External Examiner

AMC Engineering College

*Bengaluru*

Nov. 2016

- Appointed as an examiner for practical examination for the subjects Computer Programming Lab, Web Programming Lab and Operating Systems Lab

### Project Competition

Siddhartha Institute of Technology

*Tumkur*

May. 2014

- Participated in the Technodea-14 Project exhibition competition held at SSIT, Tumkur

## Personal Details

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**DOB:** 07/07/1990

**Gender:** Male

**Nationality:** Indian

**Hobbies:** Singing, Football, Cricket, Badminton

**Marital Status:** Married

## Declaration

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I hereby declare that the information given above is true to the best of my knowledge. I will make it my earnest endeavor to discharge competently and carefully the duties you may be pleased to entrust with me.

***Arunkumar***