

Teach, Design, and Develop applications in **Java**, **Python**, **React**, and **C#**.

EXPERIENCE

NOV 2020 - * AS AN ASSISTANT PROFESSOR AT VARDHAMAN COLLEGE OF ENGINEERING
Department of Computer Science & Engineering, Hyderabad, India.

- Taught undergraduate courses on the **Basics of the Internet of Things**, **Cloud Computing** and **Virtualization**, and **Fundamentals of Cybersecurity**.
- Coordinator for **AICTE LITE Web Development Minor** and **Google Cloud Career Readiness** programs.

DEC 2019 - * AS A STARTUP FOUNDER AT YAYIN AI LAB PVT. LTD.

- Successfully delivered a module for the Swadyamitra project using **Spring Boot & Thymeleaf** to **Indian Oil Corp.** in April 2023.
- Redesign, perform typical updates, and bug fixes for the **WordPress**-based website. Lead the inter-department website coordinators team and manage the **Microsoft 365** infrastructure of **Vardhaman College of Engineering**.
- We are designing two makers' products (fabrication and mass production stage).
- Designing a web application to provide an AI-based personalized travel experience for travelers.

JUN 2018 - SEP 2019 AS A FREELANCE PROGRAMMING INSTRUCTOR.

- Taught undergraduate courses on **Java**, **Python**, and **Information Security Basics**.
- Enrolled in Spring 2018 for **Information Systems Management (Master)** program at Trine University, Dropped out in 2019.

JAN 2018 - MAY 2018 AS A JAVA DEVELOPER AT DATASERV INC.

- Worked on enhancing web-based services product which was developed using **Java-J2EE** platform, and **Spring Boot** with **React.js** frameworks.
- Applied concepts of collections (Maps) to store data as Key-Value pair in a JSON object and send it to external API and vice versa. Implemented a helper module that takes a given JSON into a tree structure and inserts the given element.
- Developed **Elasticsearch**-based indexing to the data in **MongoDB** with **ElasticUtils**.

2016 - 2017 AS A CYBER SECURITY RESEARCHER AT KONINKLIJKE PHILIPS N.V.

Developer and Researcher for the CISO R&D Team at Philips Healthcare in Andover, MA.

PROJECT: ANTI-PHISHING PLATFORM

It is a **Microsoft Outlook** add-on, which notifies users when accessing Outlook about suspicious values indicative of phishing by analyzing email headers, body, and SPF, DKIM, & DMARC flags.

- Designed a **C#** component that analyzes email headers. It also allows reporting a phishing email with the analysis result.
- Developed a **VB.Net** system process that eased interactions with machine learning algorithms written in **Python** and the **C#** component.

PROJECT: THREAT LEARNING PLATFORM

It is a Web-based application prototype for storing and analyzing threat data streams and building entity-relationship models. It also provided data visualizations built through various open-source and internal threat streams.

- Developed on **Spring 4.x**, **Apache Wicket**, **React.js**, **OrientDB**, and **Apache Lucene**.
- Collaborated with the team in cloning open-source repository **Stucco** and deployed with customizations on **AWS** to collect and parse various threat streams.

POC: THREAT AWARENESS & TRAINING

- Research on **Microsoft Exchange Server** addon development and engaged in third-party vendor comparisons and evaluations for enterprise security solutions.
- Developed a **Microsoft Outlook** plugin that identifies the reported phishing awareness campaign emails to the security operations center mailbox by employees and filters them.

2015 - 2016 AS A SOFTWARE ENGINEER AT SYMBIOSYS SOLUTIONS INC.

PROJECT: NEW HAMPSHIRE UNEMPLOYMENT INSURANCE SYSTEM (NHUIS), CONCORD, NH, USA.

- Provided Day-to-Day IT support to the software applications that manage the life cycle of unemployment insurance claims at the Employment Services (NHES) offices and to the web services provided to Claimants and Employers in NH.
- Fix defects through CA Harvest tickets in the existing system, Worked with Oracle 12c database, JSP, Servlets, and JDBC technologies (legacy codebase).
- Enhanced the existing NHUIS system to reflect the updated United States Labor Department's RESEA program.
- Redesigned the help section for NHUIS using Adobe-Robohelp and supporting **Section 508** and **W3C standards**.
- Redesigning the existing system to modern frameworks viz: Spring and Hibernate.

2013 - 2015 AS A STUDENT AT THE UNIVERSITY OF MASSACHUSETTS, LOWELL

Awarded Master of Sciences degree in Computer Science in May 2015.

- In the Spring of 2014, I worked on a machine learning course project that performed sentimental analysis on movie reviews and predicted the review rating.
- In the Summer of 2014, I Interned at an MIT-based startup (Gratecart).
- In the Fall of 2014, developed an Android application for students to post classifieds about books with auto price suggestions, The application could scan ISBN codes to give suggestions about prices and autofill fields. It also allowed students to send a request for buying the book.
- In the Spring of 2015, I developed a Python-based web application for **20 Questions Game** for the AI coursework.

2012 - 2013 AS AN ASSOCIATE SOFTWARE ENGINEER AT TECH MAHINDRA

Java Developer, Hyderabad & Bengaluru, India.

Designed three proof of concept applications for Dorms Allocation System, Bus Ticket booking for Agents, and Railways Ticket booking systems on Java-EE, Struts, Spring 3.x, Hibernate ORM, and JDBC.

PROJECT: INTEGRATED TEST DATA MANAGEMENT

It is a tool to support test data generation for projects, fulfill the test data requirements, and upload the data into different environments.

- Designed the Ticket Creation and Status Check modules, It was developed on Spring MVC, Spring-JDBC framework, and also on JSP, HTML, XML, CSS3, and AJAX technologies.
- Developed unit test cases, designed database schemas, and validated data with MySQL queries.

2007 - 2011 AS A STUDENT AT THE BALAJI INSTITUTE OF TECHNOLOGY AND SCIENCES

Awarded bachelor's degree in computer science & engineering by JNTU-Hyderabad.

- In the Spring of 2009, I designed HTML pages, SQL queries, and database schemas for a web-based discussion forum project developed on the ASP.Net framework for the students and professors in the school.
- In the Fall of 2010, presented a paper on **Semantic Deep Web** at IIIT Hyderabad.
- In the Spring of 2011, I developed a Java-J2EE-based implementation for the paper published in the **IEEE** magazine titled **Histograms and Wavelets on Probabilistic Data**.

SKILLS

Preferred Environment	Java, Python, Windows 10, WSL2 & VS Code
In the Loop	HTML, JavaScript, C#, VB.Net, C, C++, CSS, PHP, Go.
Databases	Oracle, MySQL, OrientDB, MongoDB.
Frameworks	WordPress, Struts, Hibernate, Spring, Apache Wicket, Django, Ruby on Rails, Node, ReactJS, GatsbyJS, & HUGO.
Tools	Eclipse, Git, MySQL-Workbench, Postman, Jupyter.

CERTIFICATIONS

- Completed Web Development 101 course provided by Pupilfirst School.
- Completed Google Cloud Associate courses provided by Google through Coursera.
- Participated in a three-week workshop at KL University on Research Perspectives on AI, ML, Data Science, and IoT.
- Certified as Hibernate ORM Level 1 developer from Tech Mahindra.
- Completed a Web designing certification course at Inspire GEC.
- Member of MSDN Dream Spark Program & ACM.

RESEARCH INTERESTS

- Information Security, Machine Learning & AI in Travel, Cloud Computing, Quantum Computing, and Natural Language Processing for Aryan and Dravidian Languages.