Prajwal Y Maredukonda |

Design and Develop applications in Java, Python, React, and C#. Former Graduate Student of Kennedy College of Science at the University of Massachusetts, Lowell.

Experience

2018 - * as a Freelancer, Personal Instructor, Founder at Yayin Al Pvt Ltd

- R&D for the Yayin, an early-stage startup web application which guides to an AI-based personalized travel experience.
- Taught 300/400 level courses on Java, Python, and 100/200 level courses on Information Security.
- Collaborated with a psychology graduate to implement **comprehensive lesson plans** that accommodated a student with autism for one-on-one learning sessions.
- Pursued master's in information systems management at Trine University from Spring 2018 to Fall 2019.

2016 - 2017 as a Cyber Security Researcher at Koninklijke Philips N.V.

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

Threat Learning Platform

- A Web-based application prototype for storing and analyzing threat data streams, building entity-relationship models. data visualizations through various open-source and internal threat streams.
- Developed on Spring 4.x, Apache Wicket, and ReactJS frameworks with OrientDB database and Lucene search Engine.
- Forked open-source repository Stucco and deployed with customizations on AWS to collect and parse various threat streams.

Threat Awareness & Training

- Research on Microsoft Exchange Server addon development, engage 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.

Anti-Phishing Platform

- A **Microsoft Outlook** add-on, which notifies users when accessing outlook about suspicious values indicative of phishing by analyzing headers (SPF, DKIM, etc..) and email body.
- 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.

2015 - 2016 as a Software Engineer at Symbiosys Solutions Inc

Symbiosys Solutions is based in Concord, NH. They provide IT expertise, day to day support for the software suite that manages the life cycle of unemployment insurance claims for the for NH Employment Services Staff, Claimants and Employers in New Hampshire Unemployment Insurance System.

- Fix defects through CA Harvest tickets in the existing system codebase developed using JSP, Servlets, and JDBC modules, and followed MVC architecture with Oracle 12c as the database.
- Enhanced the existing NHUIS to reflect the updated United States Labor Department RESEA program.
- Document and Redesign the help section for NHIUS using Adobe Robohelp and supporting Section 508 and W3C standards.
- Rewriting the codebase of the existing system to modern frameworks viz: Spring and Hibernate ORM.

2013 - 2015 as a Graduate Student at the University of Massachusetts, Lowell

Awarded Master of Sciences in Computer Science degree.

- In Spring 2014, I worked on a machine learning course project that performed sentimental analysis on movie reviews and predicted the review rating.
- In Summer 2014, I interned at GrateCare an MIT based startup for Nine weeks.
- In Fall 2014, developed an Android application for students to post classifieds about books with auto price suggestions, ability to scan ISBN codes and other students could send a request to buy the book.
- In Spring 2015, I developed a Python based web application on 20 Questions Game for the AI coursework.

2012 - 2013 as an Associate Software Engineer at Tech Mahindra

Java Developer for the Mahindra Satyam subsidiary in Hyderabad, India.

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

Integrated Test Data Management

- A Tool to support test data generation for projects, to fulfill the test data requirements, and to upload the data into different environments. It is developed on Spring MVC and Spring-JDBC framework modules.
- Designed user interface as JSP, HTML, XML, CSS3, AJAX based pages for Ticket Creation and Status Check modules.
- 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 in computer science & engineering degree from Jawaharlal Nehru Technological University.

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

Skills

Primary Code Environment	Java , Python , Windows 10 , Windows Subsystem for Linux (WSL2) $\&$ VS Code
Also Knows	C# , VB.Net , C , C++ , CSS , HTML , JavaScript
Databases	Oracle, MySQL, OrientDB, MongoDB
Frameworks	Struts , Hibernate , Spring , Apache Wicket , Django , Node , ReactJS
Tools	Eclipse, Git, MySQL Workbench, Postman, Jupyter

Research Interests & Certifications

- Certified Hibernate ORM Level 1 developer from Tech Mahindra.
- Completed Web designing certification at Inspire GEC.
- Member of MSDN Dream Spark Program & ACM.
- Machine Learning & AI , Information Security , NLP for Aryan and Dravidian Languages & Travel.