

RASHI PANDEY

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EDUCATION

University of Florida

Aug 2022 - May 2024

Master of Science in Computer Science

GPA: 3.88/4.0

- Relevant Coursework: Analysis of Algorithms, Advanced Data Structures, Machine Learning, Distributed Operating Systems Principles, Mathematics for Intelligent Systems, Engineering Leadership

Vellore Institute of Technology

Jul 2016 - Jun 2020

Bachelor of Technology in Electrical and Electronics Engineering

GPA: 8.96/10.0

WORK EXPERIENCE

Oracle Financial Services Software

Sep 2020 - Jun 2022

Associate Consultant(Software Developer)

- Upgraded, implemented, and customized 15 screens of Flexcube Universal Banking Solution for 3 clients using **JavaScript** and **PL/SQL** with the help of Oracle Development Tool.
- Installed and launched 4 development environments for clients utilizing **Docker** and **Kubernetes**.
- Contributed to a 5-member Solution Delivery team resolving technical glitches on new components of Oracle Banking Microservices Architecture, leveraging Java frontend and backend, and PL/SQL.
- Constructed 1 inventory module for a client using PL/SQL to keep track of the stocks of financial instruments.
- Collaborated with the Oracle Banking Extensibility Team to work on RESTful API development, as well as to develop and deploy 5 web services using Java, Spring Boot, Kubernetes, and **Jenkins CI/CD** pipeline.

Robert Bosch Engineering and Business Solutions

May 2019 – June 2019

Summer Intern

- Conducted a case study on the working, architecture and functioning of Body Control Module.
- Explored and researched the federated E/E Architecture utilized in trucks, as well as the Electronic Control Units and the Body Control Module, as a part of project analysis.

PROJECTS

Gossip Simulator ☞ | *Erlang, Actor Model, Distributed Operating Systems, Networking*

- Implemented a tool to compare the convergence times of a push-sum and a gossip-based algorithm for a group communication system with 10,000 nodes.
- It was carried out in line, full network, 2D grid and imperfect 3D topologies.

Twitter Clone ☞ | *Erlang, Suave WebSocket, JSON*

- Created a highly efficient Twitter clone in Erlang using an Actor model and WebSocket interface. Developed a multiple JSON-based API to retrieve the Tweets, Subscribers, queries, and replies from the ETS table in accordance with Zipf distribution. Tested the simulator for 90,000 users.
- Implemented subscribe, follow, and retweet feature.

Stock Market Maximum Profit Prediction ☞ | *Java, React, SpringBoot, SQL*

- Devised 3 different algorithms in **Java** with varying time complexities to find the maximum potential profit to be gained by calculating the best time frames during which to buy and sell stocks.
- Provided diverse solutions for three variations of the aforementioned problem using Brute Force, Greedy and Dynamic Programming algorithmic paradigms.

Iris Controlled Wheelchair ☞ | *MATLAB, Arduino, Viola-Jones Object Detection Algorithm*

- Incorporated the Haar cascade classifier, a computer vision algorithm, for precise edge detection to accurately detect human face and eyes.
- Developed an advanced eye tracking system using centroid algorithm and optimized threshold values enabling movement of the wheelchair. The output was sent to Arduino for seamless wheelchair control.

SKILLS

Languages: Java, Python, C++, JavaScript, Erlang, MATLAB

Web Technologies: HTML5, CSS3, JSON, Angular, ReactJS

Databases: Oracle, MySQL, PL/SQL

Frameworks and Platforms: Spring, REST, SOAP, Git, GitHub, Jira, PostMan, Docker, Kubernetes, Jenkins, Agile, Microsoft Office Suite

Computer Science Skills: Data Structures and Algorithms, Object-Oriented Programming, Database Management System, Distributed Operating Systems, Oracle Database, LINUX/UNIX, Software Design, Networking

TECHNICAL CERTIFICATIONS

- IBM Full Stack Software Developer Professional Certificate by IBM