# Santhosh Natarajappa

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#### **EDUCATION**

School of Computing, University of Utah, MS in Computer Science [4.00/4.00 GPA]

12/2022

B.M.S College of Engineering, Visvesvaraya Technological University, B.E in Mechanical Engineering [9.30/10.00 GPA]

05/2016

## **TECHNICAL SKILLS**

Languages and Frameworks: Java, C#, Python, C++, HTML, CSS, JavaScript, TypeScript, ReactJS, AngularJS, NodeJS, SCSS, ASP .NET Core MVC, Bootstrap, jQuery, Elasticsearch, GraphQL, SQL, Spring, Mockito, Maven, Hazelcast, Cassandra, Kafka.

Libraries: Pandas, Matplotlib, Java 8 Streams, Jackson JSON.

Tools: Git, SVN, VS Code, Visual Studio, Eclipse, Jenkins, CI/CD Pipeline, Postman, JIRA, Confluence.

#### **TECHNICAL EXPERIENCE**

## Senior Technical Consultant, Blue Yonder (Yantriks).

08/2020 - 08/2021

- Improved order capture efficiency through call center by 10% by developing the Dojo toolkit's web application.
- Refactored existing code to follow better coding practices and documented the functionalities for future use.
- Contributed to adding 5 new clients by developing a demo application using Shopify, jQuery, HTML, and JavaScript.

#### Senior Associate Technology, Publicis Sapient (Expicient Inc.).

07/2016 - 08/2020

- Migrated millions of e-commerce orders to the modern system by developing multi-threaded Java application using PL/SQL.
- Implemented an order management system by designing and developing RESTful web services using Java and GraphQL.
- Written unit test cases using Junit and Mockito and managed the OMS team to deliver the project in agile mode.
- Improved store user experience by adding signature capture functionality using AngularJS, SCSS, Bootstrap, and gulp.
- Increased store order fulfillment efficiency by 20% by developing the Dojo toolkit's order capture functionality.

#### **PROJECTS**

# Interactive Computer Graphics, Rendering on the GPU

01/2022 - Present

- Rendered real-time graphics using the OpenGL API, C++, GLFW, and GLSL.
- Implemented shading, textures, render to buffer, shadows, and reflection by writing complex GPU shaders.

## **Visualization for Scientific Data**

01/2022 - Present

- Visualized scientific data using Python, Matplotlib, pandas, and Plotly.
- Visualized and analyzed 3D MRI images using the ParaView visualization system built upon the Visualization Toolkit (vtk).

## Search Engine - Travel Made Easy

08/2021 - 12/2021

- Designed and developed a search engine using Elasticsearch to retrieve local places' information.
- The dataset consisting of more than 100k documents is prepared and indexed by crawling the web using Selenium.
- Implemented three retrieval models BM25, Language model (LM) with JM, and Dirichlet smoothing.
- The models are evaluated by labeling **200** query-document pairs and found that LM with Dirichlet smoothing outperformed with **56.6%** precision.
- The web application is created for demonstration using React and served through ASP .NET Web API.

# **Teaching Assistant Application Portal**

08/2021 - 12/2021

- Designed and developed web application using HTML, CSS, Bootstrap, JavaScript, and AJAX in the client browser; application programs are written in C# ASP NET Core running on the server-side; and SQL databases on the back end.
- · Configured authentication and identity features and developed single sign-on and role-based accessibility.
- Deployed the application on the Amazon EC2 server.

# LEADERSHIP / VOLUNTEERING EXPERIENCE

Teacher - eVidyaloka Trust (NGO)

05/2020 - 05/2021

• Taught science and mathematics for rural, government primary school children.

Mentor - Parikrama Humanity Foundation (NGO)

03/2018 - 08/2018

• Taught basic programming for high school students using Scratch and guided them to create a game.

### **HONORS AND AWARDS**

Promising Newcomer, CARE Awards – Publicis Sapient

12/2016