



SARANG JOSHI

Full Stack Engineer/Machine Learning Engineer

CONTACTS

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PROFILE

Software engineer with proficiency in computer science and engineering. 5 years of research experience. 3 years of industry experience.

EDUCATION

Master's, Virginia Polytechnic Institute and State University, Blacksburg, GPA 3.56

DECEMBER 2018

Master's, Virginia Polytechnic Institute and State University, Blacksburg, GPA 3.82

AUGUST 2020

DATA & MACHINE LEARNING PROJECTS

Epicaster 3.0: Forecast the epidemic explorer

- Developed REST API's in Java for an Accuweather plugin to handle simulation snapshots for flu forecasts.
- [Video URL](#)

Visualize Keratoconus: A Computer Vision Project

- Developed an algorithm using OpenCV to generate synthetic images to simulate keratoconus vision
- [Github repo](#)
- [Sample image](#)

IMDB movie rating prediction

- A movie rating prediction system to predict the IMDB rating of a movie on IMDB movies dataset with 18 features.
- MSE of 0.5 for movie rating using a RandomForestRegressor and Grid search for hyperparameter tuning.
- [Github repo](#)

FULL STACK SOFTWARE ENGG. PROJECTS

Interactive online web search interface: Critisearch

- Developed an online search interface using AngularJS to manually reorganize online search results.
- Conducted user studies and gathered interaction data to understand user behavior patterns.
- [Demo Video](#)

Menu Redefined: A WYSIWYG online menu card

- A CMS enabled Express.js website to "see" the menu before placing an order.
- Click on a menu item to watch how it is made.

- [Website Demo](#)

INTERNSHIPS

Full stack engineer, Ellucian, Reston, VA

MAY 2020 – AUGUST 2020

- Developed a microservice for appointment scheduling for university systems
- Developed REST API endpoints for appointment scheduling
- Developed a lightweight utility to log incoming API requests and export to CSV
- Tech stack ReactJS, Node.js (Express), MongoDB

EMPLOYMENT HISTORY

Software Engineer, Accenture, Pune, India

DECEMBER 2009 – MARCH 2013

- Developed and maintained the database model for a repository to aggregate customer data from online surveys.
- Configured, installed and tuned client system for performance in Oracle databases and improved retrieval performance by 23%.

Software Specialist, Yardi Systems, Pune, India

APRIL 2011 – FEBRUARY 2013

- Debugging and root cause analysis of problems by reviewing configuration files and logs.

LINKS

[Personal Website](#) [Github](#) [LinkedIn](#)

SKILLS

Python (Django)



Node.js



Databases (Oracle, MySQL, PostgreSQL)



Computer Vision (OpenCV)



Docker



Java (J2EE)



AngularJS



Machine Learning (scikit-learn, Tensorflow)



Git



Jenkins



PUBLICATIONS

Scalable Translation Validation of Unverified Legacy OS Code.

JULY 2019

- FMCAD2019, Formal Methods in Computer-Aided Design

Four considerations for supporting visual analysis in display ecologies

MAY 2015

- IEEE Visual Analytics Science and Technology