Ravi Kishore Thella

Web Developer/Data Scientist

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EDUCATION

- **Indiana University** Indianapolis, IN
  Master of Science in Data Analytics; GPA: 3.5/4.0 *Aug 2016 – May 2018*

- **Guru Ghasidas Univeristy** Bilaspur, India
  Bachelor of Technology in Computer Science; GPA: 3.6/4.0 *Sept 2012 – Apr 2016*

SKILLS

- **Languages**: JavaScript, Python, R, HTML5, CSS3, SQL, ASP.NET
- **Frameworks**: Node.JS, Bootstrap4, jQuery, Express, React.JS, Vue.JS
- **Tools & Technologies**: Ajax, MEAN Stack, Git, PostMan
- **Databases**: MongoDB, MySQL, MS-SQL
- **Strong Points**: Mathematics (Linear Algebra, Statistics, Set Theory and Theory of Probability).

EXPERIENCE

- **Transportation Active Safety Institute** Indianapolis, IN
  Research Assistant – Worked for Toyota *Aug 2016 - Feb 2017*
  - **Automatic Road Edge Detection**: Worked on the on-road/off-road color combination for the automatic road edge detection for both the street view images as well as the Google satellite view images.
    Worked on the classification, clustering techniques(Neural Net clustering, k-means) to compare images.

- **Indiana State Department of Health** Indianapolis, IN
  Internship *May 2017 - Aug 2017*
  - **ISDH**: Developed a process to document, assess and track the security of internally developed applications and system. System seurity plans are developed to track the security posture of internal health care systems.
    Worked on the development of the coding standards to standardize coding practices and mitigate vulnerabilities due to unsecured coding

- **Transportation Active Safety Institute** Indianapolis, IN
  Research Assistant *October 2016 - Present*
  - **TASI**: Worked with the Delphi research team to evaluate the performance of "driver state sensor" by designing and setting up different testing environments. My responsibilities includes training the new hires and assisting them with their work. Providing them feedback on the data analyzed and documenting the results which will be updated to the clients.

- **COMET Lab** Indianapolis, IN
  Web Developer *May 2017 - Aug 2017*
  - **MIPS project**: Built an application for Regenstrief Institute, to calculate and analyze performance of clinicians and health care providers. Designed an RDBMS at the backend to store the data from the application.
    Worked in the codeIgniter framework of PHP to communicate with database and draw data dynamically to the frontend application.

- **Freelancer** Indianapolis, IN
  Web Developer *July 2017 - Present*
  - **EaglesWingsInc (HTML5, CSS3, Angular4, MongoDB, Express)**: Working as a full stack developer for a Non Profit Organization that helps cancer afflicted children in Kenya, Africa. Presently working on the web design to display organizations motto, implement a clean donation mechanism and show their fund raising events gallery.

- **Freelancer**
  Web Developer
  - **University Administration System (HTML5, CSS3, jQuery, MySQL, ASP.NET)**: Worked on the front end side of a web app which facilitated account management, new student registration and student login.
    Also worked on adding tracking and record modification features such as searching, editing and deleting student records. The application helps to add, delete, search, edit the student database records. The visualizations for the depending factors are also implemented.

Projects

- **Geo Visualization of state-wise life expectancy of people in US**: Developed a project to view the life expectancy of people in USA in a interactive way. The visualization is shown state-wise as well as gender-wise.
  Worked on all the depending factors which affect the life expectancy. The depending factors include health rank of the state, marriage rate of the state, unemployment rate etc.
- **Twitchtv (HTML5, CSS3, Bootstrap4, jQuery, Ajax)**: Used twitchtv's development API to fetch (using ajax) relevant information from their website. Developed an easy to use UI to display current streaming status of select channels, more info about them if they were streaming, and facility to filter online and offline channels.
- **Health Application – Calorie Counter**: This is a part of the project that aims to build a fitness application. In this project we implemented a way to calculate the calorie burn while walking and running on plain and inclined surfaces. We have mainly focused on utilizing the smart phone sensors like accelerometer. step counter and location services to build the application. the SQLite databse is used to store the data as it offers fast query processing and small memory requirements.
- **Postbox3003 (HTML5, CSS3, Angular4, Express, MongoDB, Node)**: Developed a complete MEAN stack app. Built user registration and login module with password verification at the backend (using token sharing). Once logged in users can post messages, edit delete their messages and read messages from other users.
- **theCompleteFoodApp (Angular4, HTML5, CSS3, Bootstrap4, Firebase)**: Developed a food recipe storage app that requires users to register and login. Once authenticated, users can upload recipe images, add recipe description, ingredient information and recipe steps. Users can edit and delete their recipes as well as change ingredient contents.
- **Currency Recognition System**: Designed a system for identifying the name written on the currency notes. i.e., the language written on the currency is not universal. The currency is scanned through a scanner and are stored in our database and this will be handful when we come across a currency from another country.
  The background application runs in MATLAB and the front-end is designed in ASP.NET
- **Tic Tac Toe**: This project is built in Python using the Minimax algorithm . The MinMax is a decision rule used in game theory for minimizing the possible loss for a worst case scenario.
- **JS calculator, Wiki Viewer**: Developed web projects as part of FreeCodeCamp curriculum. The calculator application is built using the vanilla JavaScript. All the basic functionalities present in the calculator are included in this application. The wiki viewer is a project similar to Wikipedia. The data is fetched from the mediawiki api. This project is built using the JavaScript and Bootstrap framework

Honors/Awards

Indiana University Indianapolis, IN
Awarded fellowship from the Indiana University

Interests

- **Building web applications**
  I like building web applications. JavaScript and Python are my world.

References

Dr. Lauren Christopher
Associate Professor
Department of Electrical and Computer Engineering
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