

Dr Ratna Dasika

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Summary

Lifelong learner and doctorate in computer science, having current sight set on a full-time web development role. Sixteen years' experience in research and development organizations and teaching in academic institutions. Contributed to science and technology through publications in artificial intelligence and allied fields. My exceptional academic background, strong software development experience, problem-solving skills, positive attitude, collaborative teamwork, empathy and adaptive nature would add value and bring success to project and product development environments.

Technical Skills

C, C++, VC++, Java, HTML, CSS, Javascript, JQuery, AJAX, Bootstrap, Node Js, MatLab, Arduino

Learning Engagement

- Full Stack Web Developer Coding Bootcamp (present), The University of Adelaide
- Double Diploma in Project Management and Quality Auditing (present), College for Adult Learning
- Ph. D. in Computer Science & Engineering (2010), Osmania University
- Master of Technology in Software Engineering (2002), JNTU University
- Bachelor's in Computer Engineering, Institution of Engineers

Employment

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| Mar 2019-Present | Online Tutor, University of South Australia |
| Jul 2019-Present | Tutor, IIBIT (Federation University), Australia |
| Jul 2018-Jul 2019 | Research Assistant, Torrens University, South Australia |
| Feb 2019-Mar 2019 | AI and Deep Learning Specialist, Life Whisperer and Presagen, Adelaide |
| Aug 2010-May 2017 | Professor of Computer Science and Engineering (JNTU affiliated institutions) |
| Feb 2003-Jul 2010 | Associate/Assistant Professor of CSE (JNTU affiliated institutions) |
| Dec 2004-Jan 2009 | Research Engineer, Altech Imaging and Computing Pt. Ltd., India |

Achievement

- Developed innovative algorithms, models and applications in image processing, artificial intelligence, pattern recognition, machine learning, surveillance.
- Contributed to science and technology through 12 research publications in peer reviewed international IEEE conferences and international journals.
- As experienced academic succeeded in achieving high student satisfaction and success for the courses of undergraduate, postgraduate and research programs.
- Being head of the department, steered department of CSE to achieve permanent affiliation and NBA grade A accreditation for its undergraduate and post graduate programs.

Web Applications:

The Ultimate Cookbook: Web Application

The Ultimate Cookbook is an online book for finding recipes from all around the world. The application facilitates the user with an intuitive user interface, so that they can easily navigate and search for a recipe they desire. From finding curated regional recipes to recipes categorized by meal type, this cookbook gives detailed instructions, accurate measures with picture and video guidelines from the best chefs. It also gives search recommendations and random recipe suggestions to the user.

Roles:

- Designed and developed user-friendly Home page for the web application using HTML, CSS and Semantic UI.
- Back-end application development for recipe search based on regional cuisines and dynamically updating the regional areas at the front-end using JavaScript, jQuery and AJAX.
- Testing the web application-White-box, Black-box, integration.
- Used Kanban methodology for agile project management including the administration tasks such as version control using GitHub.
- Live application deployment on GitHub (<https://radeep07.github.io/TheUltimateCookbook/>).
- QA tasks

The Weather Dashboard: App using Server-Side API

I have built a weather dashboard using the third-party API, OpenWeather to retrieve weather data for user searched cities. This application finds current weather conditions and the future weather outlook for multiple cities. Used AJAX to hook into the API to retrieve data in JSON format. My app will run in the browser and feature dynamically updated HTML and CSS powered by jQuery. It displays the details like, City, Date, Icon image (visual representation of weather conditions), Temperature, Humidity, Wind speed and UV index. I have also included a search history so that users can access their past search terms. Clicking on the city name performs a new search that returns current and future conditions (5-Day Forecast) for that city.

Roles: Solo developer

- Designed user-intuitive Home page using HTML, CSS and Bootstrap.
- Back-end application development using JavaScript, jQuery and AJAX.
- End-to-End testing of the web application.
- Application deployment on GitHub (<https://radeep07.github.io/Weather-Dashboard/>).

Code Quiz: Web API

Developed a timer-based responsive code quiz application from scratch using JavaScript that stores high score and is used to gauge user's progress compared to their peers. The user arrives at the landing page with instructions and is presented with a call-to-action to "Start Quiz." The quiz presents the user a series of multiple-choice questions. The timer is initialized with a value and immediately begins countdown. Score is calculated by time remaining. Answering quickly and correctly results in a higher score. Answering incorrectly results in a time penalty of 15 seconds which are subtracted from time remaining. User have options to display score, store and clear the score.

Roles: Solo developer

- Designed user-friendly responsive Home page using HTML, CSS and Bootstrap.
- Developed back-end application using JavaScript.
- Performed End-to-End testing of the web application.
- Application deployment on GitHub (<https://radeep07.github.io/CodeQuiz/>).