Hariharan Thiyagarajan

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Career Objective

Result-oriented Computer Science major current attending Old Dominion University, with 4.5+ years of work experience on development and system administration aiming to leverage a proven knowledge of software development skills.

Education

Masters in computer science (MSCS), Old Dominion University (ODU), CGPA: 3.63/4   **Jan '18 - Dec '19**
Bachelor of Technology in Computer Science, Amrita Vishwa Vidyapeetham University   **Aug '11 - May '15**

Technical Skills

Languages/Tools	C, C++, Python, Git, Android, AWS, HPSIM, VMWare
Web Technologies	PHP, D3 JS, AJAX, HTML5, CSS3, Bootstrap, JavaScript, jQuery, React, Redux, React-Thunk, React-Hooks
Databases & Servers	MySQL, MS SQL, SQLite, MongoDB, Mongoose, XAMPP

Work Experience

Graduate Teaching Assistant   **Old Dominion University**   **Jan '18 - present**
- Lecture on how to solve complex problems using C++ and illustrate how these concepts could be used in future projects.
- Assigning projects to the students and providing proper guidance in completing by the deadline.
- Collaborated with a team of faculty at a weekly meeting and actively contributed new ideas on teaching.

Web Developer   **Old Dominion University**   **Aug '18 - Dec '18**
IBHERT: Developed an ibhert website for ODU School of nursing.
- Re-engineered the application and database schema so that multiple universities can use the portal at the same time but still ensuring one can't access the content of other schools.
- Collected the geolocation of users if given access by using PHP Geolocation web service API and implemented a dashboard to visual represent them using Google Visualization API.
- As an ensuing result, a total number of 500 students from different universities were able to register every semester without any hassle.
  Tech Stack: PHP, Bootstrap, CSS, jQuery, AJAX, JavaScript, MySQL

Assistant systems engineer   **Tata Consultancy Services, Bangalore, India**   **Aug '15 – Nov '17**
- Worked as a part of a team that manages IT Infrastructure operations of one of the big four auditors in the world where I majorly contribute on Certificate renewal for websites, Windows server maintenance and Active Directory.
- Conceptualized and implemented automated scripts for the betterment of human efforts.

MAJOR PROJECTS

DevConnector   **Jul '19 - Oct '19**
- Developed a social network app for software developers using MERN stack which includes authentication of users, dashboard, profiles, forum post and various features which are widely found in other platforms.
  Tech Stack: *React, Redux, React-thunk, MongoDB, Express, Node.js, Axios*

Content Based Advertisements   **Jan '19 - May '19**
- Designed and Developed content-based advertisements for the video streaming application to display relevant advertisements based on the user's usage patterns. Interacting with advertisements would route to specific product pages of e-commerce website.
  Tech Stack: *React, Redux, Webpack*

Sales Prediction   **Jan '19 - May '19**
- Created a robust machine learning modal to forecast the future sales of every product at a monthly level in different stores.
- Outperformed other traditional approaches. A 5% increase in the forecast by combining the machine learning model was observed.

Socially   **Aug '18 - Dec '18**
- Developed a chat room web-application, similar to the very popularly used collaborative tool Slack using LAMP stack.
- Key functionalities include Bot verification with reCAPTCHA, Gravatar image integration, User profile search, image, code and document upload, Admin control for post delete and user delete and like, dislike and comment for a post.
  Tech Stack: *PHP, Bootstrap, CSS, jQuery, AJAX, JavaScript, MySQL*

IPL data Analysis   **Jan '18 - May '18**
- Analyzed the Indian Premier League (IPL) cricket data and visualized how tosses affect the overall outcome of the cricket match using D3.js, HTML and CSS.
- Based on the analysis it is found that there is a strong positive correlation between the tosses won and matches won.

Achievements

Homes on the go   **March '19**
- Developed a data science tool that picks up user interests on homes from his previous search history, views and queries.
- Developed a user interface with a team of five that recommends houses according to house specification and neighborhood.
- *Won first prize in Hack U by Dominion Enterprises.*