

BHARATHKRISHNA GURUVAYOOR MURALI

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Highly motivated programming enthusiast with full stack experience and industry exposure, ambitious to write code that brings positivity to the people around

EDUCATION

- ★ **Stony Brook University, New York** 08/2016 - Present
Master's Degree in Computer Science
- ★ **College of Engineering Trivandrum, Kerala University** 07/2010 – 04/2014
Bachelor's Degree in Computer Science **CGPA - 8.58/10**

WORK EXPERIENCE

HEWLETT PACKARD - R&D Engineer, Big Data Domain 08/2014 – 07/2016

- ★ Formulated and developed a trigger technique for executing HP Data Protector tests which automatically generates configurations and prepares the environment using a web interface, resulting in 95% reduction of manual work – Java, Perl.
- ★ Automating the execution of test cases using EATE – a Perl based tool. Developed a web-based reporting system for test cases using PHP and MySQL.
- ★ HP Teamsite - Web content management product used for market optimizations. Involved in fixing critical performance issues and developing REST services. Worked on search, user specific targeting and deployment modules, writing backend APIs in Java.
- ★ HPE Elements - UI framework for HPE big data division. Developed various graphs, tables, data representation and analytic models like social charts, partition maps and dynamic components from scratch using Angular JS, JQuery and CSS.

PROJECTS

SURVEILLANCE SYSTEM USING FACE RECOGNITION (C++, OpenCV, PHP)

- ★ Performs face recognition using a camera and compares it with the faces already stored in Raspberry Pi.
- ★ Trains faces using Bayes classification and recognition done using Haar Cascade classifiers and comparing Histogram Patterns.

HOME AUTOMATION USING RASPBERRY PI (Python, PHP, Angular JS)

- ★ Web based system to control lights and electrical equipment in a home.
- ★ Wifi router connected to Pi communicates with remote user and sets signals in pins accordingly to control the circuits.

GPS DATA ANALYTICS FOR SALESMEN ALLOCATION (Java, Javascript, JQuery, HTML)

- ★ Real-time GPS locations of salesmen analyzed to plot heat maps to find clustering at a location.
- ★ Improved algorithm for allocation of work based on proximity calculated from GPS coordinates.

LOCALITY ANALYZER (Java, Angular JS, Node)

- ★ Web application to analyze the popularity of a locality through Google Maps API by considering various facilities available in the location.
- ★ Recommend places which best fits the user's requirements using custom weighted average algorithms and learning through previous datasets.

ENIGMA – ONLINE TREASURE HUNT ENGINE (PHP, MySQL, Javascript, HTML)

- ★ Online gaming engine with multiple levels and time based clue display with Real Time Leaderboard.
- ★ User and admin login, Countdown timer, and time based clue display.

PROGRAMMING EXPERTISE

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|---------|--------|--------------|--------------|--------------|
| ★ Java | ★ C | ★ C++ | ★ Python | ★ Angular JS |
| ★ MySQL | ★ PHP | ★ Javascript | ★ JQuery | ★ HTML |
| ★ CSS | ★ Perl | ★ JUnit | ★ Phantom JS | ★ Node |

DEVELOPMENT TOOLS

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|-------------|------------------|------------|------------|-----------------|
| ★ Windows | ★ Linux | ★ Raspbian | ★ Perforce | ★ GIT |
| ★ Bootstrap | ★ Elastic Search | ★ Selenium | ★ REST | ★ Agile methods |