

# Prem Bhusal

Beavercreek , OH  
remp.bhusal@gmail.com  
1-443-868-4308  
linkedin

## EDUCATION

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- **Wright State University** Dayton , OH  
*Master of Science in Computer Science;* *Aug. 2016 – Apr. 2019*
- **Nitte Meenakshi Institute of Technology** Bangalore, India  
*Bachelor of Engineering in Computer Science* *Sep. 2010 – July. 2014*

## PROGRAMMING SKILLS

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- **Languages:** Java, Scala, Python, C++,C **IDEs:** Eclipse,Android Studio
- **Platforms:** Linux, MacOS, Windwos **Machine Learning Libraries:** scikit-learn ,weka
- **Database:** MySQL,Cassandra **Distributed Computing:** MapReduce,Spark
- **Web Design:** HTML, CSS ,JavaScript **Misc:** Microsoft Office, Power Point , Excel

## EXPERIENCE

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- **Wright State University** Dayton, OH  
*Research and Teaching Assistant* *Aug 2016 - Apr 2019*
  - **Research Assistant - Clustering:** Classification and clustering of high dimensional DNA sequence data. Processing analyzing and visualization of vector as well as sequence data using skit-learn, SciPy and Matplotlib. Analyzing the performance and cost evaluation with million of sequence data.
  - **Teaching Assistant - Computer Organization:**  
Updating weekly lab and projects, had more than 60 students . Leading weekly lab and providing assistant to students. Holding weekly office hours,Grading lab , homework and projects.
- **Celstream System Private Ltd.** Bangalore, India  
*Software Engineer* *July 2014 - July 2016*
  - **Restful Java APIs:** Developed RESTful Java APIs to monitor the devices like printer, scanner and currency counting device. Designed REST APIs to gather data from multiple devices based on CQL queries. Performed Unit testing by simulating the metadata for devices, generated the report and presented in daily scrum meeting.
  - **Cassandra database:** Redesigned the database schema to support cassandra version 2.0 from version 1.0. Modified the query processing scheme to support new version

## PROJECTS

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- **QuantSoftware Toolkit:** Open source python library for financial data analysis and machine learning for finance.
- **Github Visualization:** Data Visualization of Git Log data using D3 to analyze project trends over time.
- **Recommendation System:** Music and Movie recommender systems using collaborative filtering on public datasets.
- **Mac Setup:** Book that gives step by step instructions on setting up developer environment on Mac OS.