Prem Bhusal

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

Education

- **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

- **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

- **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

- **Sequence Condensation Tree**: Developed balanced multi-way (i.e with predefined fanout) tree called Sequence Condensation Tree (SCT) for fast Hierarchical partitioning of sequence dataset in Scala.It is highly scalable sequence clustering method which can process millions of sequence data within 3-4 hrs.
- **GeoAnnotator: A Geocoding-based annotation tool**: Developed a web-based annotation tool for location names supported by geocoding REST APIs. Used HTML,css and Javascript and Incorporate the Google map API to displays a geographical map of selected location.
- **Employee mobile monitoring using android smart phone**: Designed the tracking android application which allows manager to monitor their employee mobile phone, incoming outgoing calls and multimedia message. Implemented tracking system using GPS.