

# Suryadev Sahadevan Rajesh

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Graduate Student in Computer Science at the University of Wisconsin-Madison.

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## EDUCATION

### University of Wisconsin - Madison

August 2019 - May 2021 (Expected)

MS in Computer Sciences

Courses: Big Data Systems, Topics in Databases, Computer Networks

### College of Engineering, Guindy - Anna University, Chennai, India

August 2012 - May 2016

B.E in Computer Science and Engineering, CGPA - 9.61/10.0

Graduated with 3rd rank in the CS Department (~210 students).

Courses: Parallel Programming, Database Management Systems, System internals, Compiler Design, Computer Architecture, Operating Systems, Data Structures, Design and analysis of Algorithms, Artificial Intelligence

## EXPERIENCE

### PayPal, Chennai, India | Software Engineer

July 2016 – July 2019

Worked in logging platform for PayPal, and it handled 7 trillion messages per day (~1PB)

- Feature parity - Improved the log tracing and indexing service to make it deploy-able in resource constrained environments.
- User efficiency - Built a tool to query logs in the hdfs (distributed filesystem) without writing any MapReduce jobs or pig script by the user.
- Log pattern detection - Developed an efficient log-scanner module with minimal overhead to scan for the presence of large sets of patterns during the log ingestion. It is used to detect log messages from the application that are not adhering to the standards.

Promoted to SE - 2 in July 2018.

### Morgan Stanley, Mumbai, India | Technology Analyst Intern

May 2015 - July 2015

Worked in Investment Management - IT team

- Collaborated to re-platform a legacy proxy-voting application to model-view-controller architecture.

### Amazon, Chennai, India | Software Development Engineer Intern

May 2014 - July 2014

Worked in Publisher to Reader Team for Kindle.

- Worked on a project on exploring the feasibility of improving the open office modules for file format conversions.

## SKILLS

**Programming** - JAVA, Python, C++, C, HTML, CSS, Javascript, AngularJS, Linux

**Technologies** - Apache Hadoop, Apache Pig, Apache Spark, Android Studio, Tomcat, Git

**Databases** - MySQL, Oracle

## PROJECTS

**Music Recommender System using Multi-Node Hadoop Cluster** - We used hybrid method for recommending songs from the dataset in the hdfs to overcome some of the disadvantages of filtering techniques when used in isolation. For content based filtering, K-means clustering was used to cluster the songs and Pearson correlation coefficient for collaboration based filtering to find similarity among users.

**Automatic Lyric Generation based on Neuro-Linguistics** - A research project for extending the lyric generation model (ontology graph) to generate lyrics based on author's stylometry and the backdrop context in the lyric. Word statistics for authors were built by parsing their previous works and object detection was used to build backdrop context (caffe framework was used) and use it in the lyric.

## AWARDS

**Key Talent Award - PayPal** - Based on contributions made in the year 2018 - 2019.

**National Talent Search Scholar** - It is awarded to 1000 students each year across India based on scholastic and mental ability tests.

**Onsite Programming Contest, Abacus - 2014, First Prize** - It is an inter-college programming contest conducted during department symposium of CEG, Anna University.

## ONLINE COURSE CERTIFICATES

**Neural Networks and Deep Learning** by deeplearning.ai on Coursera.

**Cloud Computing Applications, Part 2: Big Data and Applications in the Cloud** by University of Illinois at Urbana-Champaign on Coursera.

## ACTIVITIES

**PayPal's SRE Meetup, Chennai, 2019** | *Content Team Member* - Worked in the content team and contributed for designing the technical tracks for the event.

**Microsoft's Tame the code, Kurukshetra, 2015** | *Event Organizer* - Designed the event format and collaborated to frame the questions for the event.