# Yeshwanth B. Balachander

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## SUMMARY

- 5 years of professional software development experience in both Agile and Waterfall methodologies.
- Proficient in Java and Python programming; Passionate about Big Data processing and Machine Learning.

## EDUCATION

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| Master of Science (MS). in Computer Science, San Jose State University. **GPA: 4.0** | Aug '16 - May '18 |
| Bachelor of Engineering (BE) in Computer Science, Anna University. **GPA: 3.6** | Sep '07 - May '11 |

## TECHNICAL SKILLS

**Expertise:** Java, Python, C, REST, SOAP, HTML, JS, Node JS,
**Databases**: Oracle, MySQL, PL/SQL, MongoDB, Neo4j
**Frameworks:** Spring Boot, Django, Flask

**Big Data:** Apache Spark, Kafka, Hadoop MapReduce, HDFS, ElasticSearch, Kibana, Machine Learning
**Other:** Maven, SVN, GIT, Eclipse, ClearCase, Windows, Linux

## RELEVANT COURSEWORK

Design and Analysis of Algorithms - Introduction to Big Data and Machine Learning – Mining Massive Data Sets – Artificial Intelligence – Topics in Machine Learning - Software Engineering - Object Oriented Analysis and Design

## PROFESSIONAL EXPERIENCE

**Software Engineer Intern**　　　　**PayPal Inc.**　　　　**June 2017 – Aug 2017**
- Developed a root cause analysis feature for PayPal's auto remediation system using Neo4j, Django and AlchemyJS
- Optimally analyzed the dense application graph ~3000 nodes and generated intuitive graph visualizations of the analysis.
- The feature tremendously reduced turnaround time of failure analysis for live applications on a real time basis.

**Technology Consultant**　　　　**Deloitte Consulting**　　　　**October 2015 – July 2016**
- Designed and Developed BPM/EAI components using Java, WPS and WMB following Agile development methodology
- Quickly ramped up to pace of a well set team to design implement and fix critical components under challenging timelines

**Technology Analyst**　　　　**Infosys Limited**　　　　**April 2015 – October 2015**
- Developed web services using Java, PL/SQL and IBM's BPM/EAI technologies for large scale SOA integration projects
- Exhibited strong programming skills by developing high quality code with less than 1 defect per component on average
- Performed performance optimizations on web services and achieved 75% improvement in response time on average
- Mentored a team of 5 members on project activities and conducted knowledge sharing session for related teams
  **Awards: INSPIRE award** and **Client Appreciation** award for Q3FY15.

**Systems Engineer, Sr. Systems Engineer**　　　　**Infosys Limited**　　　　**June 2011 – March 2015**
- Led a component design team from client location by assessing SOA integration patterns through proof of concepts
- Developed and maintained over 10 functional components using Java and IBM WebSphere Process Server technology
- Analyzed and fixed over 75 critical U.A.T and Functional Testing defects (15% of total defects), ensuring application sanity
  - **Awards: Insta Award** for excellence - 2012

## ACADEMIC PROJECTS

**Optimizing Budget Allocation for Online Social Network (OSN) Ads.** *Individual Project, San Jose State University.*
- Optimized an existing Budget Allocation algorithm for OSN ads that aimed at maximizing the user reach for a given budget.
- Employed a greedy approximation strategy and achieved over 200% improvement in runtime for user size of over 1 million.

**Brand's Social Sentiment Analysis.** *Team Project, San Jose State University.*
- Built a Naïve Bayes machine learning model using Apache Spark MLlib to classify tweet sentiment.
- Built the data pipeline with a multithreaded twitter streaming API client producing tweets to configurable Kafka Topics.
- Indexed the analysis results in Elastic Search and created data visualizations for the analysis results using Kibana

**Context Aware Recommendation System.** *Individual Project, San Jose State University.*
- Enhanced an existing context-aware recommendation system following hybrid strategies using sklearn and graphlab.
- Improved relevancy by performing content based similarity with user profile on top of the collaborative filtering results.

**Uber Assistant – A Google Assistant Bot.** *Team Project, Uber Hacks – Hackathon*
- Developed a Google Assistant bot to make Uber reservations using Google Actions API, API.AI, Python and Uber Rides API.
- Designed the bot interface in API.AI and fulfilled the Uber API integration through web services developed using Python Flask

**Mobile Retail Checkout Application.** *Team Project, Hack Merced - Hackathon*
- Developing HTTP REST web services using Spring Boot Framework by integrating with a Mongo DB backend.
- Implementing HATEOAS links to drive application state transitions for the frontend mobile client.