

# Harini Balakrishnan

harini1593@gmail.com | (870)740-6052 | Newark, CA

## OBJECTIVE

Software Engineering Graduate, actively seeking full-time opportunity in end-to-end Software Application Development

## EDUCATION

**Master of Science in Software Engineering**, San Jose State University May 2019  
Courses: Cloud Technologies, Machine Learning, Enterprise SW Platforms GPA: 3.78/4.0  
**Bachelor of Technology in Information Technology**, Anna University May 2014  
Courses: Data Structures, Database Management Systems, Web Technologies GPA: 3.63/4.0

## TECHNICAL SKILLS

**Frontend Languages:** HTML5, CSS, JavaScript, XML  
**Frameworks:** AngularJS, NodeJS, Rails, Spring Boot  
**Databases:** MySQL, SQLite, PostgreSQL, NoSQL  
**ML Tools:** Jupyter, Pandas, Numpy, Sklearn, NLTK  
**Tools:** Jenkins, Docker, Basecamp, Trello, Virtual Box  
**Backend Languages:** Java, Python, Ruby  
**Methodologies:** Agile, Scrum, Kanban, TDD  
**OS Platforms:** Linux, Windows, Mac, Android  
**Version Control:** Git, GitHub, SVN  
**Cloud Technologies:** AWS, GCP, OpenStack

## WORK EXPERIENCE

**Teaching Assistant at San Jose State University**, San Jose, CA January 2019 - Present  
(Courses: Cloud Services, Machine Learning; Dev: Python; Tools: AWS, Jupyter Notebook)

- Analyzed various datasets using classification, regression, clustering, pattern recognition and Natural Language Processing
- Successfully balanced administrative work, academic tutoring and performed research on real-time Fake News prediction

**Software Engineer Intern at Grabit Inc**, Sunnyvale, CA May 2018 - August 2018

(Dev: Node.js, Java; UI: HTML, JS, CSS3; DB: PostgreSQL; BI: Tableau; Version: SVN)  

- Worked in a team responsible for building gravity-fed robotic conveyers to handle packages at the FedEx NC warehouse
- Effectively engineered managing large streams of real-time sensor data using web sockets and automated data preprocessing
- Responsible for performing decision-driven data analytics and building dashboards with monitoring and alerting services

**Full Stack Apprentice at Devbootcamp**, San Francisco, CA November 2016 - June 2017

(Dev: Rails; UI: HTML5, jQuery, JS, AJAX; TEST: JUnit, RSpec; IDE: IntelliJ, Sublime)  

- Led a 4-member team in building user-friendly mobile applications, interactive websites and deployed them on Heroku

**Solutions Engineer at CEM Business Solutions**, Chennai, INDIA November 2013 - July 2015

(Dev: X++; UX: Sketch, Photoshop; UI: HTML, CSS, JS; Tools: MS Office, AX R3 CU8)  

- Contributed to developing the Microsoft Dynamics ERP AX products, diagnosed functional issues and designed solutions
- Wore a hat as a Software Engineer and led a team in customizing dashboards, trouble shoot, bug-fix and post-live support

## AWARDS

**Nearables** — Built an IoT mobile application to track and rescue people/pets under the debris during natural disasters like earthquakes. Interpreted the beacon signals and integrated Google Maps to navigate people to the exit door during fire accidents  

- Won the **First Prize** from **IBM** and also won the **best hardware project award** from **Sierra Circuits** for this project in the Call for Code Hackathon at San Jose State University in September 2018 ([Link](#))

## ACADEMIC PROJECTS

**EZmenutouch** — Bootstrap, Angular4, Java, Android, REST API, HTTP, PostgreSQL, Docker, AWS, Alexa, GitHub, JUnit

- Developed a RESTful cloud native SaaS application to provide virtual dine-in user experience and deployed it on R53
- Used S3-file storage, RDS database, CloudWatch to monitor the logs, IAM, AMI, Lambda and SNS for notifications
- Reduced the latency by 50% using the CloudFront and implemented content-based recommendation system using ML

**S3URL** — HTML, CSS, JavaScript, Java, DynamoDB, AWS, ELK stack, Prometheus, Docker, Kubernetes, Maven, Tomcat

- Developed a URL shortener 3-tier MVC web application with Jenkins continuous integration and deployment pipeline
- Led my team in building dynamic front-end and deployed it on Google Kubernetes Engine with Ingress load balancer
- Monitored the cluster-wise traffic, CPU and Memory usage using Grafana and the PagerDuty for alerts and notifications

**Way4R** — Java, Android Studio, XML, Google Single-SignOn API, Places API, Maps API, Place Picker API, SQLite, GPS

- Built a map application for wayfarers/pedestrians to track potential hazards, traffic and tourist spots in the neighborhood
- Configured the map with autocomplete search queries and mapped the customized markers that are created by the users

**AlternusVera** — Python, NLTK, Gensim, TF-IDF, Word2Vec, Doc2Vec, Matplotlib, Seaborn, Scipy, LDA Topic Modelling

- Built a model to predict Fake News based on features like Sentiment Analysis, Sensationalism and Political Affiliation
- Led my team in preprocessing the dataset using Tokenization, Stemming and enriched dataset with SenticNet5 corpus

## PUBLICATION

Published a research paper on '**Vision Acuity Test using Mobile Services**' ([Link](#)) in the IJSCAI - IRAJ journal on May 2014.

## CERTIFICATION

- Certified as the Cloud Practitioner by Amazon Web Services, valid from January 2018 till January 2020
- Certified online in HTML5 and CSS3 from the University of Michigan at Coursera on September 2016
- Certified in Public Speaking and Leadership program from Toastmasters International on March 2015