

Yash Sunil Ballani

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Education

California State University, Dominguez Hills - Los Angeles, California	Expected: May 2019
<i>Master's in Computer Science, Software Engineering</i>	GPA:3.8/4
Thadomal Shahani Engineering College - Mumbai, India	May 2017
<i>Bachelor's in Engineering, Information Technology</i>	

Key Skills

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- Programming Framework/ Languages: Python Django, Python Flask, PyQt4, Java, Spring, Hibernate, Android
 - Machine learning Libraries: Keras, NumPy, Pandas, SciPy, Scikit-learn
 - Cloud Technologies: Amazon AWS, Google Cloud, Microsoft Azure, OpenStack, Kubernetes, Docker
 - Web Technologies: React, HTML5, CSS3, jQuery, JavaScript, AJAX, PHP, WordPress
 - Databases: PostgreSQL, MySQL, SQLite
 - Tools/Techniques: Ansible, Jenkins, Grafana, Graphite, Nginx, Supervisor, Git, Scrum

Professional Experience / Academic Projects

California State University Dominguez Hills - Graduate Student Assistant	Jan 2018 - Current
<ul style="list-style-type: none">• Developed and deployed multiple websites under Computer Science department using WordPress on private cloud.• Hardened website security by adding firewall, implementing 2 Factor Auth., preventing and logging brute force attack.• Improved website delivery time by implementing minification, compression and caching of static resources.	
Clustered Computing using Containers Project - Software Engineer	Aug 2018 - Dec 2018
<ul style="list-style-type: none">• Deployed OpenStack for an on-premise cloud infrastructure for provisioning virtual compute and storage power.• Deployed a Kubernetes architecture using federation on hybrid cloud for scalability of containerized applications.• Configured and deployed Jenkins to automate compiling and deployment of docker containers from private registry.	
Intrusion Detection System (IDS) Project - Software Engineer	Aug 2017 - Dec 2017
<ul style="list-style-type: none">• Created Python Django web server for centralized access of task for users and remotely manage their installed device.• Developed native Linux GUI app using PyQt4 for managing installed IoT device in a local managed network.• Created middleware for motion detection using sensors coupled with night vision camera over the network.	
Grafana, Web Monitoring System - Software Engineer	Jan 2017 - May 2017
<ul style="list-style-type: none">• Designed various patterns for graph-based UI to detect hardware and software bottlenecks in clustered systems.• Created automation system to deploy monitoring on servers within few minutes using Ansible to scale services.	
Nearfox, Zip Infosolutions Pvt. Ltd. - Software Developer	Sep 2015 - May 2016
<ul style="list-style-type: none">• Migration of framework from python flask to python Django to optimize backend REST API's and processes.• Development Operations including web server deployment on public cloud, automation of resources and integration of third-party payment API's to meet product requirements.• Designed new responsive UI/UX of website, page speed optimization by minification, compression & caching of static resources for improving Search Engine Optimization for Google search engine.	
The Grapevine Co. - Software Developer Intern	Dec 2014 - Apr 2015
<ul style="list-style-type: none">• Designed new responsive UI/UX layout website for company branding with Search Engine Optimization integration.• Development, testing and maintenance of the website and web application along with code versioning via Bitbucket.• Deployed various security aspects like SQL Injection, Cross Site Scripting (XSS), & Cross Site Request Forgery (CSRF).	

On-going Projects

LANL Earthquake detection using Machine Learning - Software Engineer	Jan 2019 - Current
<ul style="list-style-type: none">• Participating in a Machine Learning competition held by Kaggle for earthquake detection (owned by Google LLC.)• Research different kernel on Kaggle to formulate a neural network for optimizing earthquake detection.	

Activities

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- President of Cyber Security Club & IEEE Computer Society, California State University Dominguez Hills 2018 - 2019
 - Participated in Western Regional Collegiate Cyber Defense Competition (WRCCDC)
 - Participated in Google Coding Challenge, HENAAC CAHSI Conference 2018
 - Participated in Collegiate Penetration Testing Competition (CPTC), San Francisco 2017