

# Ashish Adhav

3800 SW 34th Street, P132, Gainesville, Florida 32608

☎ 3528881365 | ✉ aashish.aadhav@gmail.com | 🌐 ashishadhavblog.herokuapp.com | 📱 ashishadhav | 🌐 aashish-aadhav

## Education

### University of Florida

M.S. IN COMPUTER SCIENCE AND ENGINEERING

Expected MAY 2018

- Courses : Distributed Operating systems, Analysis of Algorithms ,Programming Language Principles, Computer Network Security, Software Engineering, Advanced Data Structures

### Pune Institute of Computer Technology, PICT

B.E IN COMPUTER SCIENCE AND ENGINEERING

2009 - 2013

## Skills

**Programming** C , C++ , Golang , Python , Mysql , JAVA , C# , .NET , Node.JS , PHP , Perl , Bash  
**Others** HTML5 , Phaser.io , JQuery , JavaScript

## Experience

### Pubmatic

Pune, India

SOFTWARE ENGINEER

Jul. 2013 - Aug. 2016

- Involved in designing and implementing fault tolerant, scalable, distributed systems
- Included profiling and fixing applications for CPU, Memory and I/O bottlenecks
- Was part of the OpenRTB and Pubmatic RTB implementation Team.
- Worked extensively on the Trie, Bloom data structures and Memcached (Distributed & Local)

## Projects

### Detecting TLS misconfiguration in Android Apps using dynamic analysis

UNIVERSITY OF FLORIDA

Nov. 2016

- Developed a framework to analyze android apps at runtime using Python
- Detected client side and server side TLS issues, making them MITM susceptible
- Verified that 90% of Android Apps make atleast 1 SSL/TLS config mistake

### In Process Caching

PUBMATIC

Jun. 2014

- Deprecated legacy Memcached caching mechanism and implemented multi layer caching for Ad Servers, and their protocol in C
- Increased AdServer throughput by more than 100% and improved AdServing latency.
- Implemented evictions, TCP interface, Cache Dump ,stripped lock for LRU cache in C

### Web Bot Detection and Filtering

PUBMATIC

2014

- Designed and Implemented 2 frameworks for protection against Web Bots in C
- Used the user agent string and public IPs of users and matched them against IAB bot list and data center public IPs of multiple providers
- This contributes to 20% of the BOTs detected by Pubmatic in Real Time Bidding
- Framework was realtime and used Trie Prefix and Pattern matching efficiency

## Realtime Feedback based throttling

PUBMATIC

2016

- Developed as part of Pubmatic 24 Hours Hackathon which later went live
- Used adaptive learning to filter traffic at runtime based on timeouts
- Extended by Pubmatic ML Team to add ecpm and other dimensions
- System could now handle random spikes in our and our demand partners traffic
- Productions simulations revealed we could throttle traffic from 20B to 15B per day with no significant revenue loss
- Made system robust and provided traffic control as could match the QPS of supply and demand side Realtime

## Honors & Awards

---

### AWARDS

2016	<b>You made the difference Award,</b>	<i>Pubmatic</i>
2015	<b>You made the difference Award,</b>	<i>Pubmatic</i>
2015	<b>3rd</b> , Pubmatic Global Hackathon	<i>Pubmatic</i>
2015	<b>Excellence in Service,</b>	<i>Pubmatic</i>
2014	<b>Innovation and Impact,</b>	<i>Pubmatic</i>
2013	<b>1st</b> , C Coding Competition	<i>MH.Inst of tech</i>
2013	<b>2nd</b> , National Coding Contest	<i>IEEE PICT</i>
2012	<b>2nd</b> , 2 awards in Coding Competitions PICT	<i>PICT</i>
2012	<b>Finalists</b> , 8 Coding Competitions	<i>Pune</i>

### ROLES

2012	<b>Event Head</b> , Impetus and Concepts, Coding Competition	<i>PICT, Pune</i>
------	--	-------------------