

Employment

OS Engineer, Intern	Intel Corporation	May 2017 - Dec 2017
Windows OS Server Platform Accelerators Team		
<ul style="list-style-type: none"><li>Design and port DPDK from Linux to Windows to be congruent and make it easy to port applications</li><li>Implement additional Windows code to support DPDK porting</li><li>Develop tools to accelerate the project development and debug</li><li>Tune and optimize performance of the ported Windows stack</li></ul>		
Software Engineer	Pubmatic	2013 - 2016
Core AdServer Developer		
<ul style="list-style-type: none"><li>Involved in designing and implementing fault tolerant, scalable, distributed Real Time Bidding system.</li><li>Profiled and fixed applications for CPU, Memory and I/O bottlenecks.</li><li>Part of the OpenRTB and Pubmatic RTB implementation Team, Ad Quality and Revenue Boost team.</li><li>Worked extensively on Data structures like Trie, Bloom, Inprocess LRU cache &amp; Distributed Memcached.</li></ul>		

Education

Gainesville, FL	University of Florida	Fall 2016 – May 2018
<ul style="list-style-type: none"><li>M.S in Computer and Information Science, GPA: 3.61</li><li>Graduate Coursework: Distributed Operating systems, Computer Networks, Analysis of Algorithms,Programming Language Principles, Computer Network Security, Software Engineering, Advanced Data Structures</li></ul>		
Pune, India	University of Pune	2009 – 2013
Pune Institute of Computer Technology		
<ul style="list-style-type: none"><li>B.E in Computer and Information Science, GPA: 3.63</li></ul>		

Technical Experience

Projects

- LL(1) Compiler** (2017).Implemented a LL(1) compiler in Java which compiles a custom programming language to java bytecode.
- Detecting TLS misconfiguration in Android Apps using dynamic analysis : Univ of Florida** (2016).Developed a framework to analyze android apps at runtime in Python, solving the android app attribution problem. Detected client & server side SSL/TLS security issues of apps and third party libraries, making them MITM vulnerable.
- Cloud Edge Beneath Architecture Based IOT system : Univ of Florida** (2016). Implemented the Restful Edge layer interface in Golang and Distributed device drivers for sensors on BBB in Xinu. The Edge served as the Command and Control center for the IOT subsystem & made the IOT devices hot pluggable & dynamically configurable. Interface converts Rest API calls to retransmission and ACK supported custom MQTT UDP calls to IOT devices.
- In Process Caching: Pubmatic** (2015).Implemented multi layer caching for Ad Servers,and their protocol in C. Increased AdServer platform throughput by 100%.Implemented evictions, TCP interface, Cache Dump ,stripped locks for the LRU cache.
- Web Bot Detection and Filtering: Pubmatic** (2014).Designed and Implemented 2 Realtime frameworks for protection against Web Bots and Crawlers in C using Trie & Blooms. Contributed to 20% of the BOTs detected by Pubmatic in RTB.
- Realtime Feedback based throttling: Pubmatic** (2016). Designed and Implemented a new throttling mechanism as part of a weekend hackathon based on realtime revenue and timeout feedbacks. The throttling kicks in when either our or partners platforms nears its peak capacity, maintaining systems revenue and availability.

Open Source Projects on GitHub

- Platform Game** (2016). Developed a Phaser.IO based platform game hosted on <https://ashishplatformgame.herokuapp.com/>
- Messenger** (2016). Implemented a realtime Messenger similiar to the Facebook messenger in AJAX.
- Blogging** (2016). Implemented a simple blogging site hosted on <https://ashishadhavblog.herokuapp.com/index.html>.

Additional Experience and Awards

- Part of Intel Team at DPDK San Jose Summit (2017):** Demoeo the internship project.
- 5 Intel Recognitions (2017):** By Intel Corporation.
- You Made the Difference Award: (2016)** By Pubmatic.
- Excellence in Service: (2015)** By Pubmatic.
- 1st Runner Up, Pubmatic Global Hackathon: 2015**
- Innovation and Impact Award: (2014)** By Pubmatic.
- 1st Prize ,C coding Competition: (2013)** By MIT,Pune..
- Event Head:** Impetus and Concepts, Coding Competition at PICT. Around 600 participants

Languages and Technologies

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- C, C++, Java, Golang, C#, NET; MySQL; PHP; Python; VB10;
- HTML5, JQuery, JavaScript, Phaser.IO
- Visual Studio, GIT, Memcached, Varnish, Redis, WinDbg, VTune