

## Amarnath Raghunathan

<https://www.linkedin.com/in/amarraghu/>  
[amar.2983@gmail.com](mailto:amar.2983@gmail.com) | 408.242.5008 | San Francisco Bay Area

### EMPLOYMENT

---

<b>Software Engineering Manager</b>	<b>VMware Inc.</b>	<b>Feb 2018 – Present</b>
<ul style="list-style-type: none"><li>Leading a cross-geo team of 12 backend engineers (entry-level to Staff) delivering hybrid cloud VM availability service.</li><li>This service is expected to be available later this year (2020). DRaaS market is \$4.5B (CY20) and growing at a ~15% CAGR</li><li>Delivered microservices that manage APIs for cross site trust establishment, billing &amp; telemetry, protection configuration.</li><li>Delivered CI / CD pipelines for a hybrid cloud product comprising of on-premise software and cloud based microservices.</li><li>Delivered control plane functionality for VMware's distributed storage system (VSAN) – APIs for VM based snapshot &amp; recovery workflow</li><li>Delivered integration with cluster management APIs (cluster monitoring, health, performance, configuration).</li><li>Led a team of cross functional tech leads in an effort to pass scale testing at 100%. The team triaged and/or fixed 200+ bugs over a 5 month period. The team won the Business Unit breakthrough award for Quality (awarded once per quarter).</li><li>Partnered with peer teams (UX / UI / backend) across 3 different time zones (PST, EST, EET – Eastern Europe)</li><li>Scaled the team from 5 to 12 engineers.</li><li>Promoted 3 engineers, including a Staff-2 promotion outside the immediate team.</li><li>Won the best product booth award (out of 100+ booths) at an R&amp;D-wide internal conference (VMware RADIO 2019).</li><li>Tech stack: Java, Python, Concourse (CI/CD), AWS, RDS</li></ul>		
<b>Staff Software Engineer</b>	<b>VMware Inc.</b>	<b>Jun 2016 – Jan 2018</b>
<ul style="list-style-type: none"><li>Designed and led implementation of sub-systems such as cluster configuration, near-real time stats collection (cluster, node and workload/object level stats) from over 40K objects</li><li>Built support for cluster level AuthN (SSO) and AuthZ (RBAC) support</li><li>Contributed to sub-systems such as cluster health &amp; monitoring, workflow orchestration across nodes of the system</li><li>Tech stack: Java, Python, VSAN (leader based distributed system)</li></ul>		
<b>Senior Software Engineer</b>	<b>VMware Inc.</b>	<b>Jun 2013 – May 2016</b>
<ul style="list-style-type: none"><li>Contributed to backend functionality for a v1 DRaaS solution for vCloud Air.</li><li>Added a generic lock management service on Cassandra leveraging a built in linearizable consistency construct (LWT).</li><li>Built server deployment and configuration, build to build upgrade and trust management functionalities for VMware Site Recovery Manager product (releases 4.x and 5.x).</li><li>Tech stack: Java, C++, Cassandra, Windows MSI</li></ul>		
<b>Technical Sabbatical, OCTO (Office of the CTO)</b>	<b>VMware Inc.</b>	<b>Jun 2014 – Nov 2014</b>
<ul style="list-style-type: none"><li>Conceptualized and worked on a research idea – “DR Protection Based on Application Resource Consumption Patterns”</li><li>Delivered and demonstrated the prototype to Product team and the CTO.</li><li>Research poster on the same topic was presented at VMware RADIO 2014 (~10% research poster acceptance rate)</li><li>Patent Issued #9,971,664</li></ul>		
<b>Software Engineer (MTS I, II &amp; III)</b>	<b>VMware Inc.</b>	<b>Dec 2010 – May 2013</b>
<ul style="list-style-type: none"><li>Developer in the VM management team (vCenter). Contribution include server upgrade, server patching, diagnostic pre-upgrade tools, customer escalations etc.</li></ul>		
<b>MTS Intern</b>	<b>VMware Inc.</b>	<b>May 2007 – Nov 2007</b>
<ul style="list-style-type: none"><li>Prototype redesign of vCenter server upgrade and parts of vCenter server deployment workflows</li></ul>		
<b>Research Assistant</b>	<b>University of Florida</b>	<b>Aug 2005 – May 2007</b>
<ul style="list-style-type: none"><li>Designed, developed and maintained a JESS based expert system for the agricultural department</li></ul>		

### EDUCATION

---

<b>M.S in Computer Science</b>	<b>University of Florida (Gainesville, FL)</b>	<b>Aug 2005 – Dec 2007</b>
<ul style="list-style-type: none"><li>GPA: 3.8</li><li>Courses: Algorithms and Data structures, Database Systems, Compilers, Data Mining, OS, Rule based systems</li></ul>		
<b>B.S in Computer Science</b>	<b>Anna University (Chennai, India)</b>	<b>Aug 2001 – May 2005</b>
<ul style="list-style-type: none"><li>GPA: 81/100 (percentage system)</li><li>Courses: Computer Networking, OS, Microprocessors, Probability &amp; Queuing Theory, Computer Graphics, AI</li></ul>		