

Amarnath Raghunathan

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EMPLOYMENT

Software Engineering Manager	VMware Inc.	Feb 2018 – Present
<ul style="list-style-type: none">Leading a cross-geo team of 12 backend engineers (entry-level to Staff) delivering hybrid cloud VM availability service.Delivered microservices that manage APIs for cross site trust establishment, billing & telemetry, protection configuration.Delivered CI / CD pipelines for a hybrid cloud product comprising of on-premise software and cloud based microservices.Delivered control plane functionality for VMware's distributed storage system (VSAN) – APIs for VM based snapshot & recovery workflowDelivered integration with cluster management APIs (cluster monitoring, health, performance, configuration).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).Partnered with peer teams (UX / UI / backend) across 3 different time zones (PST, EST, EET – Eastern Europe)Scaled the team from 5 to 12 engineers.Promoted 3 engineers, including a Staff-2 promotion outside the immediate team.Won the best product booth award (out of 100+ booths) at an R&D-wide internal conference (VMware RADIO 2019).Tech stack: Java, Python, Concourse (CI/CD), AWS, RDS		
Staff Software Engineer	VMware Inc.	Jun 2016 – Jan 2018
<ul style="list-style-type: none">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 objectsBuilt support for cluster level AuthN (SSO) and AuthZ (RBAC) supportContributed to sub-systems such as cluster health & monitoring, workflow orchestration across nodes of the systemTech stack: Java, Python, VSAN (leader based distributed system)		
Senior Software Engineer	VMware Inc.	Jun 2013 – May 2016
<ul style="list-style-type: none">Contributed to backend functionality for a v1 DRaaS solution for vCloud Air.Added a generic lock management service on Cassandra leveraging a built in linearizable consistency construct (LWT).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).Tech stack: Java, C++, Cassandra, Windows MSI		
Technical Sabbatical, OCTO (Office of the CTO)	VMware Inc.	Jun 2014 – Nov 2014
<ul style="list-style-type: none">Conceptualized and worked on a research idea – “DR Protection Based on Application Resource Consumption Patterns”Delivered and demonstrated the prototype to Product team and the CTO.Research poster on the same topic was presented at VMware RADIO 2014 (~10% research poster acceptance rate)Patent Issued #9,971,664		
Software Engineer (MTS I, II & III)	VMware Inc.	Dec 2010 – May 2013
<ul style="list-style-type: none">Developer in the VM management team (vCenter). Contribution include server upgrade, server patching, diagnostic pre-upgrade tools, customer escalations etc.		
MTS Intern	VMware Inc.	May 2007 – Nov 2007
<ul style="list-style-type: none">Prototype redesign of vCenter server upgrade and parts of vCenter server deployment workflows		
Research Assistant	University of Florida	Aug 2005 – May 2007
<ul style="list-style-type: none">Designed, developed and maintained a JESS based expert system for the agricultural department		

EDUCATION

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