

Robinson Raju

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Software Engineering Manager with 20+ years of experience in building software platforms and solutions in e-commerce, online payments, and security solutions for Fortune-100 companies. Excels at delivering large programs and driving product innovation. Passionate about helping people excel. Published author of 4 book chapters and a couple of IEEE papers.

Experience

Google. Sunnyvale, CA. June 2020 - Present.

Engineering Manager, Google Cloud Security Engineering.

Responsible for launching key features in BeyondCorp Enterprise (Zero Trust Security offering) like Certificate-based Access, BCE AppConnector and BCE Troubleshooter each designed to improve the security posture of GCP and non-GCP resources. Managing 2 teams with 11 direct reports.

PayPal. San Jose, CA. Dec 2014 – Jun 2020.

Senior Manager, Software Development [Apr 2016 - Jun 2020], Manager, Software Dev 2 [Dec 2014 - Mar 2016].

Role: Sr. Engineering Manager, Financial Instruments team & Bank Partnerships Initiatives

Re-engineered Paypal's Financial Instruments platform to migrate the 1M LOC codebase from C++ to Java, improved latency by 6X using multi-threading and distributed caching, reduced TTM by 1/3. Managed 3 teams of 31 direct reports across 2 locations (San Jose & Singapore).

eBay. San Jose, CA. Dec 2011 – Dec 2014.

Manager, Software Development 2 [Jul 2012 - Dec 2014], MTS1, Software Engineer [Dec 2011 - Jun 2012].

Role: Engineering Manager for Global Buying Hub & Item Visibility Framework

Software engineer instrumental in creating a Geo platform that could support user locale detection and create the ability to give targeted experience to users. Grew to manage engineering teams within Geo org for Global Buying Hub in Russia, Item Visibility Framework, and ebay International Markets.

Hewlett Packard. Cupertino, CA. Sep 2011 – Dec 2011.

Senior Software Engineer, ArcSight R&D (HPE Security).

Software Engineer primarily responsible for evaluating and setting up tools for engineering productivity used by all the engineers at HPE Security. The tools included the build system, wiki (confluence), bug tracking system, code repository (p4), and other custom tools.

eBay. San Jose, CA. Oct 2005 – Aug 2011. **Software Engineer** (Contractor).

Software engineer on over 30 projects in 6 years. Key projects - ebay FR Classifieds, Application Catalog, Daily Deals, Build and Release, Half UI Refresh, Seller Dashboard, Neighborhoods, Arribada Conversion, Trinity Identity System, ebay Payment Gateway.

Cognizant Technology Solutions. Chennai/Bangalore, India. Aug 2002 – Sep 2005. **Software Engineer.**

Software Engineer responsible for building a tracking tool for incident management at a large Insurance client, building an Online ordering system for a Pharma client to enable users to create and submit orders, search inventory. Built Search module using Lucene.

Education

Ph.D. Cyber Defense. Dakota State University, Madison, SD. 2022 - (In Progress).

M.S. Computer Science. San Jose State University, San Jose, CA. 2014 - 2018.

M.S. Software Engineering. Birla Institute of Technology and Science (BITS), Pilani, India. 2006 - 2008.

Bachelor of Engineering. University Visvesvaraya College of Engineering, Bangalore, India. 1997- 2001.

Publications

- 1) "Compression of wearable body sensor network data" in *Smart Data: State-of-the-Art Perspectives in Computing and Applications* (2019).
- 2) "Using machine learning for protecting the security and privacy of the Internet of Things (IoT) systems" in *Fog and Edge Computing: Principles and Paradigms* (2019).
- 3) "Cyber-Physical Systems in Healthcare: Review of Architecture, Security Issues, Intrusion Detection, and Defenses" in *Recent Advances in Security, Privacy, and Trust for IoT and CPS* (2020).
- 4) "Smart Home Device Security: A Survey of Smart Home Authentication Methods with a Focus on Mutual Authentication and Key Management Practices" in *Cybersecurity in Smart Homes: Architectures, Solutions and Technologies* (2022).