Rahul Vishwakarma

rahul.vishwakarma@ieee.org ● +1 (562) 538-6577 ● `http://rahvis.github.io/` ● Los Angeles, USA

EDUCATION

California State University, Long Beach — California, United States
M.S. Computer Science. Awarded Graduate Dean List; Outstanding Research Scholar — **Jan 2022 - May 2024**
Thesis (NSF Grant. 2245247): *Towards Uncertainty-Aware Hardware Trojan Detection*

SRM Institute of Science and Technology — Chennai, India
Bachelors of Technology **Computer Science & Engineering** — **Aug 2005 - May 2009**

EXPERIENCE

Dell Technologies — Bangalore, India

AI Product Owner | Machine Learning Engineer — **June 2018 - Dec 2021**
- Responsible for driving Go To Market strategies, develop the business case by analyzing customer needs, market trends, feature prioritization, and Product Road-map for AI features in Dell Power Protect Data Manager (PPDM) - self-guided recovery (US Patent. 17/667,176) and upgrade recommendations (US Patent. 17/388,847).
- Created detailed requirements based on a deep understanding of user requirements and customer usage data. Worked closely with engineering to deliver high-quality AI product feature for Dell Cloud IQ data criticality (US Patent. 17/236,044) based on the KPI and customer demand using agile development process.
- Conducted market analysis, competitive analysis for security and cloud tier products (Cloud Tier for LTR - long term retention with AWS, Azure, GCP). Direct engagement with the support, sales, marketing, advertisement to make the product more customer focused and updated with market trends.

Senior Software Engineer — **Mar 2017 - May 2018**
- Architected and developed anomaly aware log retrieval from DAE (U.S. Patent 11/513,931) and adaptive key rotation based on critical data (U.S. Patent 17/652,606) implemented in Dell Power Protect Data Domain.
- Planned, designed, and implemented Data Domain interoperability integration with Dell products and third-party vendors by creating automation libraries in Python, which significantly enhanced customer operations.
- Designed and patented an internal tool for ECS Cloud capacity planning (time-series) and disk failure detection (classification and clustering) for Data Domain install base (90,000+ systems) using telemetry data.

Hewlett Packard Enterprise — Bangalore, India

Solution Architect — **May 2015 - Mar 2017**
- Enhanced OS efficiency and scalability on HPE Converged Systems 900 by creating optimized modular images for Red Hat Enterprise Linux and SUSE Linux Enterprise Server by ensuring compatibility with hardware and optimized performance, enhancing reliability and performance of Mission Critical Solutions at HPE.
- Led certification and automated deployment of HPE Converged Systems for SAP HANA, designing a scalable backup architecture with HPE 3PAR ensuring SAP HANA operations and data protection.
- Implemented HPE 3PAR as external storage for ProLiant DL580, integrating with SAP HANA studio for efficient Backup/Recovery operations using backint with HPE Data Protector improving data management efficiency.

Tata Consultancy Services — Bangalore, India

Information Technology Analyst — **Oct 2009 - Apr 2015**
- Directed ACS development for collections at CITI Bank N.A., led a team of 6 as a COBOL developer, coordinated projects, collaborated effectively with clients, and achieved a 30% collection efficiency improvement.
- Managed the automation of regression testing for Symmetrix VMAX and EMC Celerra (VNX), implemented automation scripts resulting in reduced testing time by 40% and decreased number of bugs.
- Led QA team for Virtualized Data Protection software with IBM and Oracle databases, developed strategies, applied project management techniques, and achieved a 25% reduction in software defects.

SKILLS

Programming Language	Python
Machine Learning	Deep Learning, MLOps, Statistical Learning, PyGraph, Tensorflow
Database	Oracle, SAP HANA, mongoDB
Infrastructure	HPE and Dell Servers, Microservices, Virtualization, Storage Array
Operating Systems	Linux, Solaris, z/OS,

PATENTS | TALKS | PUBLICATIONS

- **51** *Granted US Patents* in the domain of Machine Learning and Enterprise Data Storage — **2018 - 2021**
- Delivered 9 talks at *SNIA SDC* — **2019 - 2023**
- *Google Scholar*: 9 Conference, 2 Journal, and 3 Posters (Citations: 82) — **2011 - 2024**

AWARDS | LEADERSHIP

Outstanding Graduate Research, Scholarly, and Creative Activity (RSCA) Award ($500) - CSULB	**2024**
Founded the first AI Research Club at California State University Long Beach	**2024**
Dell Patent Award ($250,000): Long Term Incentive (LTI) Cash and Restricted Stock Units (RSU).	**2021 - 2022**
IEEE Senior Member (99106509)	**Sep 2023**