Rahul Vishwakarma

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EDUCATION

California State University, Long Beach — California, United States
M.S. Computer Science — Jan 2022 - Dec 2023
Courses: Algorithms, Artificial Intelligence, Pattern Recognition, Natural Language Processing.

Bringing expertise in applied machine learning, with a solid grasp of fundamentals and specialized in uncertainty quantification. Dedicated to driving business revenue growth while maintaining a lifelong learning approach.

SRM Institute of Science and Technology — Chennai, India
Bachelors of Technology **Computer Science & Engineering** *GPA: 8.8/10* — Aug 2005 - May 2009

SKILLS

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

EXPERIENCE

Californai State University, Long Beach — California, United States

Graduate Research Assistant — Spring 2022 - present
- Designing storage security for wearable devices and mitigating attacks from evolving hardware trojans.
  Skills: Uncertainty quantification, graph neural network, classification, GAN.
  Advisor: Dr. Amin Rezaei (NSF Grant 2131156)

Teaching Assistant — Fall 2022 - present
- Co-instructor for the course CECS451 Artificial Intelligence, CECS550 Pattern Recognition, CECS456 Machine Learning (Spring 23), and CECS551 Advanced Artificial Intelligence (Fall 22).
  Instructor: Dr. Mahshid Fardadi

Dell Technologies — Bangalore, India
Senior Software Engineer — Mar 2017 - Dec 2021
- Leading Power Protect Data Manager (PPDM) as a Product Owner in an Agile Team for quarterly release.
- Developed automation framework for application interoperability and system integration for Data Domain.
- As a Scrum Master, handled critical customer escalations in the domains of replication, and cloud migration.
- Designed an internal tool for capacity planning (time-series) and disk failure detection (classification and clustering) for Data Domain install base (90,000+ systems) using telemetry data.
- Mentoring *Artifical Intelligence Academy* for solving problems in collaboration with cross domain use cases across wider horizontal set of Dell product portfolio, and enabling engineers to submit invention disclosures.

Hewlett Packard Enterprise — Bangalore, India
Systems/Software Engineer II — May 2015 - Mar 2017
- Developed Red Hat Enterprise Linux and SUSE Linux Enterprise Server modular image for HPE Converged Systems 900 Scale-up/Scale-out as a part of Mission Critical Solutions.
- Certified HPE Converged Systems for SAP HANA and performed automation of deployment and upgrade.
- Designed reference architecture for SAP HANA backup with HPE 3PAR in scale-up and scale-out deployment.
- Configured and managed HPE 3PAR as external storage for ProLiant DL580 and Backup/Recovery from SAP HANA studio using backint with HPE Data Protector.

Tata Consultancy Services — Bangalore, India
Information Technology Analyst — Oct 2009 - April 2015
- Development and maintenance of Automated Collection System (ACS) at CITI Bank as a COBOL Developer.
- Automated regression tasks for Symmetrix VMAX, EMC Celerra (VNX) in a simulated data center environment.
- Quality assurance of virtualised Data Protection software with databases (IBM, Oracle), and MS Applications.

PATENTS | PUBLICATIONS

Patent Areas: *Machine Learning, Data Storage, Persistent Memory, DNA Storage, and Blockchain* — 2018 - 2021
66 Patents: 20 Grants, 46 Pending. Milestone Award FY20, FY21 - Top Filers across APJ, EMEA, and LATAM

Google Scholar: F2eTslkAAAAJhl

AWARDS

National Science Foundation (NSF) Student Travel Grant : **HOST**, San Jose, USA — May 2023
Young Fellows Program: 60th **Design Automation Conference (DAC 2023)** San Francisco, USA — July 2023