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SUMMARY

Seeking a technical leadership position to utilize my data science skills, data center operations management background, and organizational skills to deliver tangible business impact

EXPERTISE

Data Center Infrastructure Operations, Thermal Management, Site Reliability Engineering, System Monitoring, Intelligent Controls, Machine Learning, Recommendation System, Multi-Scale Modeling, Energy Efficiency

WORK EXPERIENCE

AdeptDC, Inc., *Co-Founder/CEO*

2015 - 2020

I started AdeptDC based on my PhD research. It offers an AIOps solution for microservices and data centers.

- Developed an AI pipeline for anomaly detection, anomaly tuning, relevance ranking, and similarity pair ranking for troubleshooting dynamic microservices and data center infrastructure
- Designed a data center hardware (server, network, storage, power, cooling) monitoring platform for automated cooling optimization and troubleshooting
- Led and managed a group of 5 engineers to build a working product and generate revenue

AWARD

NSF Small Business Innovation Research Award (Link)

2015

\$150,000 US federal award for developing a real-time software for data center cooling optimization

- Designed an innovative end-to-end data center cooling optimization algorithm from chip to chiller
- Successfully deployed a software application based on the algorithm in a commercial data center environment (**Link**) to reduce operating cost by 30%

PATENT

Lead inventor in a US Utility Patent (Link)

2019

Systems and Methods for Intelligent Controls for Optimal Resource Allocation for Data Center Operations

- Semi-supervised learning algorithm which autonomously regulates data center cooling set points based on IT workloads and chip temperatures
- Novel unsupervised pre-training to reduce the need for labelled training data by 80%

JOURNAL and CONFERENCE PUBLICATIONS (i10 index=4)

<https://scholar.google.com/citations?user=n5SEuYAAAAJ&hl=en&oi=ao>

- 10+ peer review journal and conference papers as the first author and the principal investigator
- Unsupervised time series algorithms, multi-scale machine learning, and full-Factorial experiment design

EDUCATION

Georgia Institute of Technology, Atlanta - Ph.D.

2010-2013

Georgia Institute of Technology, Atlanta - M.S.

2009-2010

Indian Institute of Technology, Kharagpur - B.S.

2004-2008