

Nakin Ahluwalia

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Education

University at Buffalo, SUNY

Master of Science in Computer Science (GPA: 3.5)

Coursework: Machine Learning, Data Intensive Computing, Computer Security, Project Management

Buffalo, NY

Aug 2024 – Present

Vellore Institute of Technology

Bachelor of Technology in Computer Science (GPA: 8.06/10)

Vellore, India

2014 – 2018

Experience

Senior Site Reliability Engineer

Sep 2020 – June 2024

Cvent

- Led the migration of legacy Windows microservices from monolith to containerized ECS architecture with zero downtime and estimated cost savings of over \$80K annually.
- Identified and eliminated redundant third party dependencies resulting in savings of over \$20K annually.
- Designed and migrated to AWS cloud infrastructure using AWS CDK and TypeScript, streamlining deployment and integrating acquired platforms (Cvent Studio, CrowdCompass), reducing deployment time by 40%.
- Collaborated with multiple development teams to identify pain points, streamline deployments, and ensure compliance with standards, playing a key role in the successful launch of Cvent Events+ under a tight deadline.
- Automated AMI build pipelines using Chef Solo, embedding company-wide compliance standards.
- Improved observability with DataDog, Splunk, CW, significantly and regularly bringing down incident detection and resolution times (MTTD and MTTR).
- Regularly manage stakeholders and serve as an Incident Commander, ensuring effective communication and swift issue resolution.

Cloud Operations Engineer - II

Aug 2018 – Aug 2020

Cvent

- Developed a Slack Chat Bot designed to automatically create channels, tickets, assign commanders and open zooms during an incident, reducing MTTD and hence MTTR by 40%.
- Managed cloud deployments, troubleshooting incidents across large-scale distributed systems.
- Developed automation scripts for infrastructure provisioning, reducing manual intervention by 60%.
- Implemented tagging across the AWS infrastructure to increase visibility, track and forecast costs using Tableau.

Projects & Research

Comparative Study on Marks Prediction Using ML Algorithms *Published in International Journal of Advanced Research in Computer Science*

- Researched and evaluated various ML models for predicting student performance.
- Conducted feature engineering to optimize predictive accuracy across multiple classification algorithms.

Brain Tumor Detection Using CNNs *Deep Learning, Medical Imaging, Computer Vision*

- Developed an automated brain tumor detection pipeline using CNNs on MRI scans.

Personal Machine Learning Exploration (Ongoing)

- Working on real-world ML projects, including handwriting recognition using EMNIST, NIST Dataset.
- A self learning Snake Game using Reinforcement and NLP sentiment analysis using Large Language Models.
- Developing a Habit Tracking app (Habits) from scratch for IOS using Swift.

Technical Skills

Programming: Python, TypeScript, Bash, Swift

Machine Learning: TensorFlow, PyTorch, Scikit-Learn, Pandas, NumPy

Cloud & DevOps: AWS (EC2, ECS, Lambda, S3, CDK), GCP (GCE, GKE, CSQ, CLB, CDN, VPC), Docker, Kubernetes, Terraform, Chef, Git

CI/CD & Automation: Jenkins, CircleCI, Octopus Deploy, DataDog, Splunk, PagerDuty