

# Akhil Sundaram

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## EDUCATION

### University of Illinois Urbana-Champaign

Champaign, IL

*Masters in Computer Science*

*GPA: 3.89/4 - Jan. 2024 - May 2025*

*Relevant Coursework:* Distributed Systems, Computer Architecture, Advanced Storage and Memory systems, Real-time Systems, Computer Security, Game Development

### PES University

Bangalore, India

*Bachelor in Technology, Computer Science and Engineering*

*GPA: 8.76/10 - Aug. 2015 - May 2019*

*Relevant Coursework:* Operating Systems, Big Data, Unix Systems Programming, Data Structures and Algorithms

## EXPERIENCE

### Senior Devops Engineer

July 2019 – Nov 2023

*Logmein / GoTo*

*Bengaluru, India*

- Created a patch management tool for Linux environments across on-premise and cloud infrastructures, enabling diverse patching strategies and reducing system downtime by 30%.
- Architected and deployed cloud-native applications across AWS, OpenStack, and Oracle Cloud, including designing cross-cloud solutions for over 20 different services for GotoMeeting's backend application.
- Engineered and maintained customized Ansible modules for DNS automation, real-time monitoring, and cloud migration, eliminating configuration errors (99.99%) and reducing manual intervention.
- Deployed a cloud security monitoring tool across multiple AWS accounts and Oracle Cloud environments, incorporating automated compliance scans and real-time alerting. This implementation reduced compliance violations and increased threat detection efficiency.
- Designed automated disaster recovery and cross-cloud migration frameworks using Ansible and Terraform, ensuring seamless data transfer and zero downtime during cloud transitions.

## PROJECTS

### Distributed Log Querier | *Golang, Linux*

Aug 2024 – Sept 2024

- Implemented a fault tolerant program that parses a distributed log file using sockets and go routines.
- Generated distributed logs of known and random patterns of upto 300,000 lines. Built unit tests to verify querier.

### Timing experiment with Memory Systems | *C, Cache, Memory*

Jan 2024 – May 2024

- Developed a program to get the properties of the last-level cache of a system and also the latency of the memory.
- It determines the line size, capacity, and associativity of the last level cache by timing the latency of memory hits/misses. Written in C.

### Identity System using Blockchains | *Python, NodeJS, Blockchain, Multichain*

Jan 2019 – May 2019

- Designed a decentralized, secure platform utilizing blockchains to create an Identity datastore for over 1000+ users.
- Addressed data oversharing through identity-forms that validate information through a consensus mechanism reducing validation time by 40% and improving privacy under possible data breaches.
- Built a platform with a NodeJS frontend that interacts with a Multichain peer-to-peer network, and a Flask backend to manage blockchain transactions and identity verification processes.

### Cloud Agnostic Kubernetes | *Ansible, Kubernetes, AWS, Linux*

Jan 2019 – May 2019

- Developed a Kubernetes deployment tool using Ansible and Python, capable of automating the setup of Kubernetes clusters on Linux-based systems saving over 3 hours per deployment.
- Devised a cross-platform solution that ensures compatibility with any cloud service provider; achieved successful implementation on AWS and bare-metal Linux.
- Generated robust scripts for real-time monitoring and autoscaling of Kubernetes nodes improving uptime by 50%.

## TECHNICAL SKILLS

**Languages:** Python, Golang, C

**Frameworks:** Ansible, Terraform, Flask

**Developer Tools:** CUDA, Git, Docker

**Platforms:** Kubernetes, AWS, Openstack, OCI