

# ATUL NATH

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## EDUCATION

### University of Southern California

Los Angeles, California

#### Master of Science, Computer Science | GPA: 4/4

August 2023-Present

- Graduate Course Producer: Design and Construction of Large Software Systems
- Selected Coursework: Analysis of Algorithms, Distributed Systems, Database Systems, Artificial Intelligence

### Vellore Institute of Technology

Vellore, India

#### Bachelor of Technology, Computer Science and Engineering | GPA: 9.26/10

July 2017-June 2021

- Relevant Coursework: Algorithms, Software Engineering, Operating Systems, Database, Applied Linear Algebra

## SKILLS

Programming Languages: Go/Go Lang, Java, Python, C#, GraphQL, HTML, CSS, Node.js

Databases: SQL Server, Elasticsearch, Druid, MongoDB, PostgreSQL, CockroachDB

Frameworks and Tools: Docker, Kubernetes, Kafka, Redis, Prometheus, Grafana, ELK Stack, Flask, Git, Postman, Jenkins, CI/CD, RESTful APIs, Microservices, Linux, Windows Server, gRPC, JSON, Powershell, Microsoft Power BI, Microsoft SSRS

Soft Skills: Agile/Scrum, Leadership, Teamwork, Public Speaking

## WORK EXPERIENCE

### Bose Framingham, MA

#### Cloud Software Engineer Intern

June 2024-August 2024

- Created and containerized a Flask-based Alert Reader tool to automate the reporting of Prometheus metrics scraped from Slack channels, integrating Grafana and Kibana links, and cutting down alert reporting time by 50% for on-call responders
- Optimized Cron Jobs for nightly backup and restore operations from CockroachDB to S3, decreasing disk capacity usage from 50 GB to 100 MB

### Hewlett Packard Enterprise

Bangalore, India

#### Cloud Developer I

August 2021-June 2023

- Designed and maintained APIs in Go to manage NFS shares and features for HPE's GreenLake Cloud Platform
- Implemented 4 Microservices to handle asynchronous device communication, enhancing scalability of framework
- Devised a Delta Protocol with LRU-Cache to optimize data transmission, reducing API response time from 5 to less than 1 minute
- Mentored 2 junior developers on cloud technologies and file protocols to onboard to ongoing project

### Hewlett Packard Enterprise

Bangalore, India

#### Software Engineer Intern

February 2021-July 2021

- Developed multiple REST APIs using Powershell and C#, enabling file-share CRUD operations on Windows Guest VM
- Resolved and validated over 30 NFS and SMB feature bugs on backend File Manageability Layer
- Devised automation techniques for 8-10 Windows Active Directory features, streamlining the overall development process
- Wrote N-Unit test cases in C# for CLI and Rest endpoints, improving code coverage by 50% for File Manageability Layer

### Akscellence Info Solutions Ltd

Gurgaon, India

#### Software Engineer Intern

June 2019-July 2019

- Enhanced user experience of Akscellence's website, adding drop-down features and improving site navigation
- Built 2 Microsoft Power BI dashboards, rendering interactive insights for business data

## ACADEMIC PROJECTS

### Stock Trade Application | React JS, Node JS, MongoDB, GCP

#### Developer

January 2024-April 2024

- Built a responsive stock trading application to buy/sell stocks and visualize insights of NASDAQ and NYSE stock tickers
- Managed a MongoDB Atlas datastore for stock watchlists and portfolio information, hosted on Google Cloud Platform (GCP).

### File Service with SMB Protocol | C#, Powershell

#### Developer

February 2021-July 2021

- Developed APIs to handle CRUD operations for SMB File Shares and Quota Integration on a Windows-based VM
- Constructed entire SMB share permission feature to get, remove, and set previous share permissions for a file-share