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