

# Gautam Gadipudi

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## SUMMARY

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Infrastructure and Software Engineer with 5+ years of experience delivering secure, production-ready systems across cloud and on-premise environments. Skilled in implementing RESTful APIs and backend development using Java, Golang and Python, alongside expertise in Kubernetes, Linux systems, DevOps and CI/CD automation.

## TECHNICAL SKILLS

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<b>Languages:</b>	Java, Golang, Python, C#, JavaScript, C++
<b>Platform Engineering:</b>	Kubernetes, Docker, Bash, Helm, OpenEBS
<b>Automation:</b>	Ansible, GitHub Actions, Jenkins, Terraform
<b>Backend Frameworks:</b>	Node.js, .NET MVC, .NET Core, go-gin
<b>Frontend Frameworks:</b>	Vue.js, JQuery, Bootstrap
<b>Database and Caching:</b>	MongoDB, PostgreSQL, Opensearch, Redis
<b>Monitoring Stack</b>	Prometheus, Grafana and custom exporters
<b>Cloud Platforms</b>	AWS, GCP



## PROFESSIONAL EXPERIENCE

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<b>Hewlett Packard Enterprise</b>	<b>San Jose, CA</b>	<b>Jan 2022 - Present</b>
<b>Software Engineer - Cloud</b>	<b>Platform Infrastructure Team</b>	

- ❖ Designed and implemented solutions for the air-gapped, on-premise deployment of HPE's GreenLake Cloud Platform (GLCP) - contributing to the successful GA (General Availability) release of the platform, used by multiple enterprise customers in highly regulated sectors.
- ❖ Built a custom Linux-based platform featuring a multi-node Kubernetes cluster, a highly available replicated data plane, Golang-based microservices and a console for user interaction - designed for scalable deployments and 99.9% availability in production environments.
- ❖ Developed secure, compliance-focused software with FIPS-compliant OS and Kubernetes components, remediating CVEs in Docker images, and securing the Linux file system for highly regulated environments - contributing to security audit readiness and alignment with FedRAMP compliance
- ❖ Automated CI/CD pipelines with GitHub Actions to build, package and deploy the full infrastructure stack as VMs, enhancing developer productivity and ensuring fast, stable, and error-free releases.
- ❖ Built a secure gateway for customers to manage incoming/outgoing traffic from HPE on-prem devices (storage arrays and compute devices) to HPE cloud platform
- ❖ Created observability stack for the above Gateway application which includes:
  - custom Prometheus exporters for generating meaningful metrics
  - Grafana dashboards for visualization and analysis
  - AlertManager to trigger alerts when certain rules are broken
- ❖ Developed a data collector app which collects, aggregates and monitors performance through configuration metrics and telemetry data from various databases e.g. MySQL, MS SQL Server
- ❖ Collaborated with internal teams and external vendors (OpenEBS and Canonical) to integrate their software releases & features with HPE's cloud platform
- ❖ **Tech stack:** Go, Bash, Kubernetes, Ansible, Mayastor (OpenEBS), GitHub Actions

**DeltaX**  
**Full Stack Developer**

**Bengaluru, India**  
**Ad Tracking Team**

**Jan 2018 - Aug 2019**

- ❖ Developed REST API's using .NET framework to collect Ads data and track events from multiple streams: Google Ads, Facebook Ads, and Twitter Ads. Processed large volumes of data to/from SQL and NoSQL DB's to generate performance reports for over 50 clients.
- ❖ Built the UI to visualize and manage ad tracking data using Vue.js. Implemented browser caching & web sockets which reduced page load times.
- ❖ Developed extensions for Chrome & Firefox with Vue.js and vanilla JavaScript, enabling customers to view ad events and generate campaign links on-the-go using those events.
- ❖ Contributed to the engineering blog: <https://engineering.deltax.com/>
- ❖ Followed Behavior Driven Development (BDD) to define user scenarios, improve collaboration between developers and QA, and ensure alignment with business requirements.
- ❖ **Tech stack:** C#, .NET, Vue.js, MS SQL Server, AWS S3, AWS OpenSearch

**Techmojo Solutions**  
**Node.js Developer Intern**

**Hyderabad, India**  
**Roka (B2B fintech product) Team**

**Jun 2017 - Jul 2017**







- ❖ Developed a pub/sub feature which delivers instant e-wallet balance updates to customers. Implemented the feature with Redis cache and Socket.io. Reduced latency in balance updates and improved the user experience.
- ❖ Followed Test-Driven Development (TDD) principles using Mocha in writing unit tests upfront to guide implementation and ensure long-term maintainability.
- ❖ **Tech stack:** Node.js, Java, Redis, Socket.io

## **EDUCATION**

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**Rochester Institute of Technology, NY**  
**Master of Science in Computer Science**

**Aug 2019 - Dec 2021**

- ❖ **Coursework:** Big Data, Pattern Recognition, Web Technologies, Artificial Intelligence, Machine Learning, Computer Vision, Advanced OOP, Computational Problem Solving, Computer Networks and Algorithm Analysis.
- ❖ **Projects:**
  - \* Packet analyzer for TCP, UDP and ICMP packets using Java. 
  - \* RIPv2 using socket programming in Java. 
  - \* K-means clustering using MongoDB and Python3. 
  - \* Classify sentences into Dutch and English language using decision tree and adaboost learning. 
  - \* A star algorithm to find the most efficient and safest path on a 3D map of a local park in Rochester. 
  - \* Static Metadata Tracker for Detecting Silent JSON Errors in Python 

**Manipal Institute of Technology, India**  
**Bachelor of Tech. in Computer Science**

**Aug 2014 - Jun 2018**

- ❖ **Coursework:** Data Structures, OOP, Algorithm Analysis, Introduction to AI and ML, Social Network Analysis, Software Engineering Designs and Principles, RDBMS, Operating Systems, Computer Architecture and Microprocessors.