

# Harvad (Hongzhi) Li

*Cloud DevOps Engineer & Site Reliability Specialist*

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## Profile Summary

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Cloud DevOps Engineer with 5+ years of hands-on expertise in Azure, AWS, and GCP cloud platforms. Proven track record in site reliability engineering, DevOps, and DevSecOps practices within multinational organizations. Currently serving as IT/Infrastructure Specialist at ECARX Sweden AB, leading infrastructure optimization projects including Azure AKS to on-premise HPC migration achieving 259% performance improvement (3.59x faster than Azure HB120rs.v3 flagship VM) while reducing costs by 40%. Architected 4-node Dell HPC cluster with Kubernetes, achieving record-breaking 7m47s Android AOSP 15 builds through CPU/memory/I/O tuning. Strong software development background in Python, C#, and Go with high expertise in Docker, Terraform, Azure DevOps pipelines, Helm Charts, and multi-staging CI/CD deployments. AWS and Azure certified with passion for sustainable technology and climate-neutral initiatives.

## Core Technical Skills

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- **Cloud Platforms (5+ years):** Microsoft Azure (primary - App Services, Functions, SQL Database, DevOps, AKS), AWS (EC2, Lambda, S3), GCP; Multi-cloud architecture and migration
- **DevOps Toolchains:** Docker, Terraform (IaC), Azure DevOps, Git, Helm Charts, Kubernetes (AKS/EKS/GKE)
- **CI/CD Expertise:** Azure DevOps Pipelines (multi-staging), GitHub Actions, GitLab CI, Jenkins; Automated testing and deployment
- **Programming Languages:** Python, C#/.NET, Go, Bash/PowerShell, JavaScript; Infrastructure automation and tooling
- **Site Reliability Engineering:** Prometheus, Grafana, System monitoring, Performance optimization, Incident response
- **DevSecOps:** Security scanning, Vulnerability management, Compliance automation, Secret management
- **Container Orchestration:** Kubernetes, Azure Kubernetes Service (AKS), Docker Swarm, Container security
- **Databases:** Azure SQL Database, PostgreSQL, MySQL, MongoDB, Azure Cosmos DB, Database performance tuning
- **Network & Security:** Multi/hybrid cloud connectivity, VPN, SSL/TLS, OAuth2, JWT, Cyber Security compliance
- **Performance & Optimization:** HPC infrastructure, system-level optimization, load balancing, caching strategies

## Professional Experience

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### ECARX Sweden AB — IT/Infrastructure Specialist

*October 2024 - Present — Gothenburg, Sweden*

- **HPC Infrastructure Leadership:** Led Azure AKS to on-premise HPC migration, architecting 4-node Dell HPC cluster achieving 259% performance improvement (3.59x faster) compared to Azure HB120rs.v3 flagship VM while reducing operational costs by 40%

- **Performance Engineering:** Achieved record-breaking 7 minutes 47 seconds Android AOSP 15 clean builds through systematic CPU/memory/I/O tuning, build cache optimization, and targeted parallelization strategies
- **Monitoring & Observability:** Deployed comprehensive monitoring stack using Prometheus, Grafana, Loki, and Alertmanager for real-time infrastructure observability with SLO-driven capacity planning and proactive alerting
- **DevOps Excellence:** Implementing CI/CD pipelines with GitLab Runner, achieving 25% improvement in pipeline execution times through infrastructure automation and containerization
- **Infrastructure as Code:** Implementing Terraform modules for automated infrastructure provisioning, disaster recovery, and multi-environment deployments
- **Multi-staging Pipelines:** Designed Azure DevOps multi-staging CI/CD pipelines with dev, staging, and production environments including security scanning and compliance checks
- **Hybrid Cloud Architecture:** Architected pragmatic hybrid approach combining AKS for elasticity with on-premise HPC for cost/performance-critical workloads
- **Technical Leadership:** Providing architectural guidance and DevOps best practices to cross-functional teams including hardware engineers, visualization specialists, and development teams

## Synteda — Azure Fullstack Developer & Integration Specialist (Contract)

*August 2023 - September 2024 — Gothenburg, Sweden*

- Developed cloud-native applications deployed on Azure infrastructure using C# and .NET Core
- Built RESTful APIs and microservices architecture with Azure Functions and App Services
- Implemented Azure SQL Database with optimized performance and automated backups
- Created CI/CD pipelines using Azure DevOps with automated testing and deployment
- Integrated Docker containerization for consistent deployment across environments

## IT-Högskolan — Backend Developer (Part-time)

*January 2023 - May 2023 — Gothenburg, Sweden*

- Migrated legacy applications to microservices architecture on Azure with Docker containerization
- Developed RESTful APIs using Spring Boot with comprehensive testing and documentation
- Implemented automated tests and CI/CD pipelines for continuous delivery
- Collaborated with UI/UX designers ensuring seamless frontend-backend integration

## Senior Material (Europe) AB — Platform Architect & Project Coordinator

*January 2022 - December 2022 — Eskilstuna, Sweden*

- Led cloud transformation initiative migrating monolithic applications to microservices on Azure
- Architected scalable solutions using Spring Boot backend with Docker and Kubernetes
- Designed RESTful APIs with Azure API Management for global deployment
- Implemented infrastructure as code practices and DevOps automation
- Collaborated with cross-functional teams ensuring security and compliance standards

## Selected DevOps & Cloud Projects

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### HPC Infrastructure: Azure to On-Premise Migration

**Dell HPC Cluster, Kubernetes, Terraform, Prometheus, Grafana, Loki, Alertmanager**

- Architected and deployed 4-node Dell HPC cluster with Kubernetes, achieving 259% performance improvement (3.59x) over Azure HB120rs\_v3 flagship VM
- Systematic performance tuning: CPU affinity optimization, memory bandwidth maximization, I/O subsystem tuning, and NUMA-aware scheduling

- Implemented comprehensive observability stack (Prometheus/Grafana/Loki/Alertmanager) with SLO-driven capacity planning
- Reduced operational costs by 40% while delivering superior performance for automotive development workloads

## Azure DevOps Multi-Stage Pipeline Implementation

### Azure DevOps, Terraform, Helm Charts, Docker, C#, Python

- Designed and implemented multi-staging CI/CD pipeline with dev, staging, and production environments
- Automated infrastructure provisioning using Terraform modules and Helm Charts for Kubernetes deployments
- Integrated security scanning, automated testing, and compliance checks into deployment pipeline
- Achieved zero-downtime deployments with blue-green deployment strategy

## Cloud-Native Job Automation Platform

### Python, Azure, AWS, Docker, GitHub Actions, REST APIs

- Built automated job hunting pipeline with Gmail API integration and NLP-based resume customization
- Deployed on Azure with CI/CD automation using GitHub Actions and Docker containers
- Implemented monitoring and alerting for system reliability and performance optimization
- Demo: [jobs.bluehawana.com](https://jobs.bluehawana.com)

## Multi-Cloud Weather Tracking Application

### Spring Boot, Alibaba Cloud ECS, Azure, MySQL, Terraform, Docker

- Weather tracking application deployed across multiple cloud providers for high availability
- Infrastructure as Code using Terraform for automated provisioning and disaster recovery
- Integrated with OpenCageData and Open-Meteo APIs for real-time weather data
- Demo: [weather.bluehawana.com](https://weather.bluehawana.com)

## Education

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**IT Höskolan** - Bachelor's Degree in .NET Cloud Development — 2021-2023

**Möln dal Campus** - Bachelor's Degree in Java Integration — 2019-2021

**University of Gothenburg** - Master's Degree in International Business — 2016-2019

## Cloud Certifications

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- AWS Certified Solutions Architect - Associate (Aug 2022)
- AWS Certified Developer - Associate (Nov 2022)
- Microsoft Certified: Azure Fundamentals (Jun 2022)
- **Currently Preparing:** Azure Developer Associate (AZ-204)

## Additional Qualifications

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- **Languages:** Fluent in English and Mandarin Chinese for effective global communication
- **Sustainability Focus:** Passionate about leveraging technology for environmental impact and climate-neutral solutions

- **Automotive Experience:** Over 1 year in automotive technology sector with infrastructure and DevOps expertise
- **Security Compliance:** Knowledge of cyber security best practices and regulatory compliance
- **Global Collaboration:** Proven ability to collaborate effectively within global distributed teams across multiple time zones