

# Jinjia Zhang

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## OBJECTIVE

Aspiring software engineer with a strong background in cloud computing, cybersecurity, and backend development with DevOps mindset (build it, run it and monitor it), seeking to leverage my technical expertise and innovative problem-solving skills to contribute to a dynamic team.

## EXPERIENCE

 <b>IPRally</b>	<b>DevOps Engineer, Full-time</b>	<i>Helsinki, Finland</i>
		<i>June 2025 - Present</i>
	<ul style="list-style-type: none"><li>• GCP, Kubernetes, Terraform, GitHub Actions...</li></ul>	
 <b>EKE-Electronics</b>	<b>Software Engineer, Full-time from Sep 2024</b>	<i>Espoo, Finland</i>
	<ul style="list-style-type: none"><li>• Played a supporting role in the Automatic Selective Door Operation Software team, initiating comprehensive software testing to achieve 100% coverage using C and GoogleTest</li><li>• Actively working on the AWS cloud environment for the Condition Monitoring System, enabling service functionality and security; utilizing CloudFormation/CDK/SAM, ELB, ECS, Lambda, RDS, CloudWatch, EventBridge, WAF, Cognito, Backup etc.</li><li>• Converted all resources to CloudFormation to streamline deployments across different environments.</li><li>• Undertook a master's thesis on Cloud and CyberSecurity, focusing on the Evaluation of Application Migration from Cloud to On-Premise, incorporating Docker, Helm, Kubernetes</li></ul>	<i>Mar 2023 - May 2025</i>
 <b>Aalto University - Computer Science Department</b>	<b>Teaching Assistant, Part-Time</b>	<i>Espoo, Finland</i>
		<i>Jan 2023 - April 2023</i>
	<ul style="list-style-type: none"><li>• Contributed 90 hours as a Technical Teaching Assistant, primarily in Web Software Development and Designing &amp; Building Scalable Web Applications courses</li><li>• Managed Q&amp;A groups to assist students, guiding them through programming challenges and reviewing course projects, utilizing React, JavaScript, Deno and Docker</li></ul>	
 <b>ByteDance (TikTok)</b>	<b>Cloud Platform Developer, Fulltime</b>	<i>Beijing, China</i>
		<i>Dec 2021 - Jul 2022</i>
	<ul style="list-style-type: none"><li>• Focused on IaaS - Compute Service, enhancing the system's stability, observability, and security by optimizing the connection of backend services, employing Golang, Python, gRPC, MySQL, and OpenTracing</li><li>• Developed a comprehensive knowledge base for technical issues, user documentation, and solutions for on-call problems</li><li>• Enhanced middleware efficiency for backend service observation, streamlining R&amp;D and troubleshooting processes</li></ul>	
 <b>QI-ANXIN (previously Qihoo 360 Enterprise Security Group)</b>	<b>Back-end Developer, Fulltime</b>	<i>Beijing, China</i>
		<i>Jul 2020 - Nov 2021</i>
	<ul style="list-style-type: none"><li>• Contributed to an internal microservice framework, offering critical on-call support, using Golang</li><li>• Defined the standards of data models and parsed corresponding configuration files; utilized reflection libraries related to protocol buffers to autogenerate APIs</li><li>• Constructed the observability module of the whole pub/sub system, which could monitor the current number/speed of generating events, the number of subscribers, etc., and visualize them with Prometheus and Grafana</li><li>• Wrote scripts to conduct integration tests by using fail-point to simulate typical conditions and various abnormal conditions</li></ul>	

## OPEN SOURCE CONTRIBUTION

- **Memobase**: A Profile-Based Long-Term Memory for AI Applications - Maintainer (Python, EKS, Supabase, Cloudflare, OpenTelemetry, LLM)
- **Terraform-provider-karpor**: A Terraform provider for managing cluster in Karpor - Maintainer (Golang, Terraform)
- **Karpor**: CNCF Sandbox Project, Intelligence for Kubernetes - Contributor (Golang, Kubernetes)
- **Jaeger**: CNCF Graduated Project, A Distributed Tracing Platform - Contributor (Golang)
- **Collector-contrib**: CNCF Incubating Project, OpenTelemetry Collector Contrib - Contributor (Golang)

## EDUCATION

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**KTH Royal Institute of Technology**  
*M.S. in Security and Cloud Computing*  
*KTH Joint Programme Scholarship Holder, GPA: 4.73/5*

*Stockholm, Sweden*  
*Aug 2023 - Jul 2024*



**Aalto University**  
*M.S. in Security and Cloud Computing*  
*Graduation with Honours, GPA: 4.73/5*

*Espoo, Finland*  
*Aug 2022 - Jul 2024*



**Nanjing University of Posts and Telecommunications**  
*Internet of Things Engineering*  
*GPA: 3.97/5*

*Nanjing, China*  
*Sep 2016 - Jun 2020*

## SKILLS

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- Languages: Golang, Python, C/C++, JavaScript/TypeScript, Java, Bash, Rust, Erlang
- Skills: Linux, Git, Kubernetes, Helm, Docker, SQL, NoSQL, OpenTelemetry, Istio, eBPF
- Cloud: AWS, GCP, Azure, Terraform, CloudFormation/CDK, GitHub Actions
- Effective communication in English (working proficiency) and Mandarin (native)
- Strong logical documenting skills and paying attention to details, interested in ethical hacking

## CERTIFICATES

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- AWS Certified DevOps Engineer - Professional, February 2025 - February 2028
- AWS Certified SysOps Administrator - Associate, October 2024 - February 2028
- AWS Certified Developer - Associate, August 2024 - February 2028
- AWS Certified Solutions Architect - Associate, May 2024 - May 2027
- Certified Kubernetes Administrator, April 2024 - April 2026

## ACTIVITIES AND AWARDS

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- 2023 and 2024 Aalto University SCI Dean's Scholarship
- 2023 Aalto Free Mover Scholarship
- 2023 HAIC Mobility scholarships
- 2023 KTH Joint Programme Scholarship
- Slush 2022 Volunteer (Construction Team)