

Work Experience (Selected)

Software Engineer

Mar. 2024 - Present

Mercari, Inc. MySQL

He belongs to Database Reliability Engineering (DBRE) team.

Cloud Support Associate

Apr. 2023 - Feb. 2024

Amazon Web Services Japan G.K. CloudFormation | EKS | ECS | CodePipeline

He was engaged in technical customer support for deployment services (Container, IaC and CI/CD).

(Part-time Job) OpsDev Engineer

Mar. 2020 - Sep. 2021

SORACOM, INC. Python | Ansible | Goss | ShellScript | GitHub Actions

He built the system for sensing image monitoring and CI pipelines for software tests with S+ Camera.

Education

Ph.D Program in Computer Science

Apr. 2024 - Present

Graduate School of Computer Science, Tokyo University of Technology

His research interests are log management, root cause analysis, and distributed tracing.

Master of Computer Science

Apr. 2021 - Mar. 2023

Graduate School of Computer Science, Tokyo University of Technology

He belonged to [Cloud and Distributed Systems Laboratory](#) (Supervisor: Prof. Takayuki Kushida).

His study proposes fast log search method for distributed tracing.

Bachelor of Computer Science

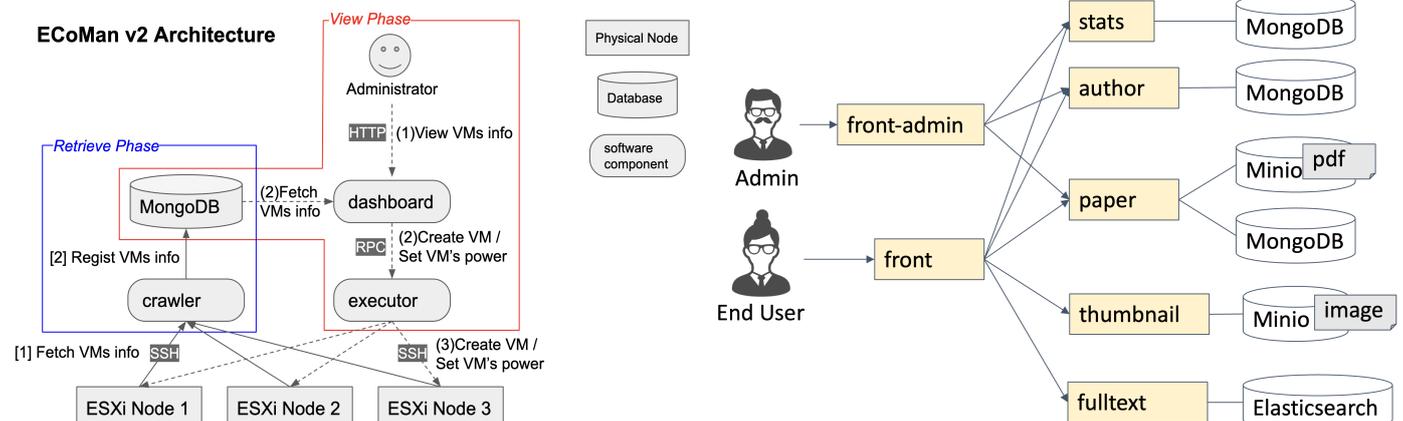
Apr. 2017 - Mar. 2021

School of Computer Science, Tokyo University of Technology

He belonged to [Cloud and Distributed Systems Laboratory](#). The research area was Distributed Log Management. He proposed the method to reduce search response time for log messages.

Personal Projects

- ECoMan**: ECoMan allows system admin to manage virtual-machines over several ESXi nodes without vshpere.
- Doktor**: Doktor is a microservices-based web service for demonstration.
- NickNS**: NickNS is the DNS server implementation that resolves VM Name into IP Address.



Publications (Refereed)

- Tomoyuki Koyama, Takayuki Kushida, "[Log message with JSON item count for root cause analysis in microservices](#)," 2023 6th Conference on Cloud and Internet of Things (CIoT), Lisbon, Portugal, Mar. 2023.
- Tomoyuki Koyama, Takayuki Kushida, "[Distributed Log Search Based on Time Series Access and Service Relations](#)," Proceedings of the 36th International Conference on Advanced Information Networking and Applications (AINA-2022), Volume 2, Mar. 2022.
- 小山 智之, 串田 高幸, "検索クエリに配慮した配置による分散ログ検索の高速化," 情報処理学会論文誌, 63, Feb. 15, 2022.

Publications (Non-refereed & Selected)

- Aarushi Vyass, Tomoyuki Koyama, Vishnu Vinodkumar, Takayuki Kushida, "[Real-Time NO2 monitoring alert using XGBoost](#)," Tokyo University of Technology CDSL Technical Report, CDSL-TR-139, Mar. 16, 2023.
- 小山 智之, 串田 高幸, "検索性能に配慮した複製による分散ログ管理," 研究報告マルチメディア通信と分散処理 (DPS) , 2020-DPS-185, Dec. 14, 2020.
- 小山 智之, 串田 高幸, "OSの自動インストール設定の対話型作成と統一記法," 研究報告マルチメディア通信と分散処理 (DPS) , 2020-DPS-182, Mar. 5, 2020.

Community Activities and Volunteers

- Project lead, India and Japan Cooperative Learning** Apr. 2022 - Feb. 2023
Worked on a research project in collaboration with students from Amity University Mumbai in India and submitted a paper to the IEEE CCEM Student Proposal Showcase
- Organizer/Mentor, Cloud Native Dojo** Aug. 2021 - Mar. 2023.
He led undergraduate students to develop software and supported them in publishing a paper.
- Volunteer hackathon staff, StarT-Tech** May 2021 - Sep. 2021.
The practice questions for participants were developed by him.
- CODEBLUE network team member, CODEBLUE 2019** Sep. 2019 - Oct. 2019.
He was engaged in network build as a member of server team.
- STM (ShowNet Team Member), Interop Tokyo 2019** June 2019.
His role was to configure network switches and test network reachability on the network.
- Internet Week NOC team member, Internet Week 2018** Oct. 2018 - Nov. 2018.
He built NAT64 environments and operated them.
- SC-NOC(Security Camp Network Operation Community) tutor, Security Camp 2018** Aug. 2018.
His work was cabling, troubleshooting, and presentation of operation reports.
- Volunteer conference staff, PyCon JP** May 2017 - Dec. 2019.
He worked as a member of venue team and as a member of NOC team.

Awards

- Research Award 2023, from 'Graduate School of Computer Science, Tokyo University of Technology', March 2023.
- Research Award 2021, from 'School of Computer Science, Tokyo University of Technology', March 2021.