**Tomoyuki KOYAMA / 小山智之**
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## Education

**Master of Computer Science** Apr. 2021 - Mar. 2023
Graduate School of Computer Science, Tokyo University of Technology
He belongs 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.

## Work Experience (Selected)

**Teaching Assistant as Part-time Job** Apr. 2021 - Mar. 2023
Tokyo University of Technology
He teaches undergraduate students in lectures (e.g., Distributed Computing, The Internet).

**IT Help Desk as Part-time Job** Sep. 2017 - Mar. 2023
Yurindo Co., LTD.
He is engaged in IT support for students and teachers as MediaLobby staff.

**OpsDev Engineer as Part-time Job** 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.

**Site Reliability Engineer as Internship** Sep. 2019
Cybozu, Inc. Kubernetes | Docker
He worked on container migration for image processing applications.

**Security Engineer as Part-time Job** May 2019 - Dec. 2019
pixiv Inc. PHP | JavaScript | BigQuery
He joined 'security and quality improvement project' and reports and developed PoC about bug bounty.

## Publications (Refereed)

- Tomoyuki Koyama and Takayuki Kushida, "Log message with JSON item count for root cause analysis in microservices" , the 6th Conference on Cloud and Internet of Things (CIoT 2023), Accepted, Jan., 2023. (Will be presented in Lisbon, Portugal on 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.* Cham: Springer International Publishing, 2022. p. 105-117.
  - Slides: Distributed Log Search Based on Time Series Access and Service Relations
- 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*, 2022, 63.2, pp. 504-514.

## Publications (Non-refereed)

- 中川 翔太，小山 智之，串田 高幸，"WebAssemblyのメモリにおける増加量とリクエスト数の比による必要量の推定を用いたインスタンスの再起動" , 第14回大学コンソーシアム八王子学生発表会, Dec. 3, 2022.
- 近藤 悠斗，内野 彰紀，田中 美帆，川端 ももの，小山 智之，串田 高幸，"ウェブインターフェースでのマウス操作によるサイト構築の簡略化" , 第14回大学コンソーシアム八王子学生発表会, Dec. 3, 2022.
- 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, No. 17, pp. 1 - 8, 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, No. 55, pp. 1 - 7, March 5, 2020.

## Community Activities and Volunteers

**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.

**Science workshop lecturer, Tama High School of Science and Technology** March 2018.
The workshop provides high school students with technical training about computer networks.

**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

- Dean’s Research Award 2021, from 'School of Computer Science, Tokyo University of Technology', March 2021.

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