Chanhee Lee

4328 Scorpius St, Orlando, FL 32816, United States
chanhee26.lee@gmail.com | (+1) 602-451-5792 | LinkedIn | GitHub

RESEARCH INTERESTS
- **Compute Express Link (CXL), Software Platforms, and On-device Large Language Models (LLMs)**

PROFESSIONAL EXPERIENCE
- **University of Central Florida**, Orlando, FL, United States
  Postdoctoral Researcher, Department of Computer Science   **Dec. 2024 - Current**
  - Leading memory-saving methods for LLMs in CXL disaggregated memory (submitted to ISCA'26).
  - Research fault-tolerant Non-Volatile Memory (NVM) for transaction-based applications.

- **Arizona State University**, Tempe, AZ, United States
  Visiting Scholar (Voluntary), School of Computing and Augmented Intelligence   **Jan. 2024 - Dec. 2024**
  - Led on-device LLM personalization projects with knowledge graphs (published to EMSOFT'24/WWW'25).
  - Developed the Rust version of the core engine of a distributed software framework named Lingua Franca.

- **Samsung Electronics Inc.**, Seoul, Republic of Korea
  Staff Engineer/Best Reviewer, Platform Team   **Aug. 2014 - Dec. 2024**
  - Led a RESTful graph database API development and ported it to Android for edge AI.
  - Developed an AI framework for remote inferences between Android and Internet of Things (IoT) devices.
  - Led a flash file system (SmartFS) development for Samsung production boards.
  - Developed an audio manager and APIs for handling audio streams with Samsung ARTIK boards.
  - Led a device-to-device communication framework development with five junior software engineers.

EDUCATION
- **Ph.D., Seoul National University**, Republic of Korea   Aug. 2014
  Electrical Engineering and Computer Science
- **MS, Korea Advanced Institute of Science and Technology (KAIST)**, Republic of Korea   Feb. 2009
  Computer Science
- **BS, Korea Advanced Institute of Science and Technology (KAIST)**, Republic of Korea   Feb. 2007
  Computer Science

SKILLS
- **AI Inference Optimization, Performance Analysis, Software Architecture, Rust/Java/C/C++/Python**

PUBLICATIONS (Google Scholar)
Peer-reviewed Conference Papers
- Published **eight papers as a main/co-author** in top-tier venues (EMSOFT/WWW).

Journal Articles
- Published **two papers as a main/co-author** in Springer/ACM journal (JSPS/TECS)

AWARDS AND HONOUR
- **Samsung Scholarship** for Ph.D. students   Mar. 2013 - Feb. 2014
  Samsung Electronics Inc.

INVITED TALK
- **Department of Electrical Engineering, Hanyang University**, South Korea   Jun. 2023
  "Remote inference with IoT devices."

ACADEMIC SERVICES AND MEMBERSHIP
- **Secondary reviewer of top-tier venues** (ISCA, ASPLOS, HPCA, PPoPP, LCTES) in 2025
- **Professional Member of the Association for Computing Machinery (ACM)**   Apr. 2024 - Current