

# Young Hyun Yoo

Software Engineer

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## SUMMARY

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An adaptable professional with extensive experience across multiple domains. Expert in back-end web server development, particularly in billing systems, and proficient in front-end development with React (JSX, TypeScript). Completed a Master's degree in Natural Language Processing (funded by Samsung Electronics) and has a paper accepted at ACL 2024. Previously developed bootloaders and device drivers as a system engineer in the BSP team.

## PROGRAMMING SKILLS

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- **Languages:** Java, C++, Python, SQL, Shell script, Terraform HCL, HTML/CSS/JavaScript (JSX, TypeScript)
- **Tools:** Spring (MVC, WebFlux, JPA, Security), AWS (ECS, EKS), MySQL, React, PyTorch, HuggingFace, LangChain/LangGraph, SoapUI
- **Others:** RESTful API, HTTP/TLS, OOP/OOAD/DDD, TDD, Clean coding, Scrum, PCI-DSS, Git/SVN

## EXPERIENCE

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- **Agentic AI Chatbot — Samsung Electronics Co., Ltd.** Suwon, Korea  
*Staff Engineer* Mar 2024 – Present
  - On-device Virtual Assistant using AWS bedrock, LangChain/LangGraph
- **Sentence Representation Learning Research — Hanyang University** Seoul, Korea  
*Researcher* Jun 2022 – Feb 2024
  - Analyzed and developed efficient methodologies for learning high-quality sentence representations based on large-scale language models.
    - Published *Hyper-CL: Conditioning Sentence Representations with Hypernetworks*
    - Published *Comparison and Analysis of Unsupervised Contrastive Learning Approaches for Korean Sentence Representations*
- **Billing Development — Samsung Electronics Co., Ltd.** Suwon, Korea  
*Engineer* Nov 2016 – Mar 2022
  - Led CP portal redevelopment using React, Spring MVC, Spring Boot, and JPA (2020-2022)
  - Developed DSA agreement feature (2021)
  - Developed a subscription product change feature for active subscriptions (2021)
  - Implemented 3DS2 compliance for EU PSD2 regulations (2020)
  - Developed remote login to Samsung Smart TV using a smartphone (2020)
  - Developed an integration test framework using SoapUI and Groovy (2019)
  - Migrated buyer portal from monolithic architecture to MSA using AWS ECS and Terraform HCL (2019)
  - Re-architected the Billing service for PCI-DSS (2018)
  - Led buyer portal redevelopment using React, Spring Boot, and JPA (2018)
- **BSP Development — Samsung Electronics Co., Ltd.** Suwon, Korea  
*Engineer* Feb 2015 – Nov 2016
  - Ported the ramdump feature to the Samsung Smart TV kernel (2016)
- **Samsung Software Membership** Suwon, Korea  
*Undergraduate* Feb 2013 – Feb 2015
  - Modified the Android kernel to operate a smartphone as a webcam, speaker, and microphone
    - Selected as the best project of the year (<http://bit.ly/358b7O8>)

## EDUCATION

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- **Hanyang University** Seoul, Korea  
*Master of Science in Computer Science; GPA: 4.06/4.5* Mar 2022 – Feb 2024
- **Hongik University** Seoul, Korea  
*Bachelor of Science in Computer Engineering; GPA: 3.5/4.5* Mar 2008 – Feb 2015

## PUBLICATIONS

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- **Young Hyun Yoo**, Jii Cha, Changhyeon Kim and Taeuk Kim, Hyper-CL: Conditioning Sentence Representations with Hypernetworks, *The 62nd Annual Meeting of the Association for Computational Linguistics (ACL 2024)*.
- **Young Hyun Yoo**, Kyumin Lee, Minjin Jeon, Jii Cha, Kangsan Kim, and Taeuk Kim, Comparison and Analysis of Unsupervised Contrastive Learning Approaches for Korean Sentence Representations, *The 34th Annual Conference on Human and Cognitive Language Technology (HCLT 2022)*.

## ADDITIONAL INFORMATION

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- **Achievements**
  - Selected as a core talent by Samsung Core Talent Management (2022-present)
- **Languages**
  - English: Proficient, Korean: Native