

# Cheul Young Park

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## EDUCATION

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### Korea Advanced Institute of Science and Technology

Daejeon, Korea

*Master's in Knowledge Service Engineering*

*Aug 2018 — Feb 2021*

- Thesis: “Towards Adaptive Sampling of Emotions in the Wild with Active Learning”

### Carnegie Mellon University

Pittsburgh, USA

*Bachelor of Science in Economics*

*Aug 2010 — May 2017*

- Science and Humanities Scholar, Additional Major in Human-Computer Interaction, Minor in Physics

## WORK EXPERIENCE

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### Software Engineer

Jun 2023 — Present

[Upstage AI](#)

Seoul, Korea

- Automated qualitative evaluation for LLMs: built Slack bot with interactive UI for evaluation orchestration, integrated AWS ECS/Fargate for scalable evaluation runs, implemented PostgreSQL-backed scoring system across multiple benchmarks; enabled team-wide one-click model assessment beyond traditional metrics
- Developed Human Feedback System (HFS): built Streamlit-based annotation platform supporting multiple task types, implemented role-based access control, bulk task assignment system, and real-time feedback collection; enabled systematic collection of human annotations to improve the Retrieval-Augmented Generation (RAG) performance of an LLM
- Built chat backend for virtual K-pop idol [MAVE](#): architected FastAPI microservices, implemented DynamoDB-based user memory for personalization, deployed LLMs fine-tuned for persona-driven dialogue; served 3,000+ users and 50,000+ interactions during 3-week global beta
- Automated an insurance-evaluation pipeline for Hanwha Life using RAG to streamline underwriting assessments

### Data Manager

Apr 2022 — Jun 2023

[Upstage AI](#)

Seoul, Korea

- Developed Python library to automate OCR data management: implemented data format conversions between OCR and key-value extraction, built dataset versioning with automatic train/val/test splits, created validation pipeline for annotation quality, handled multi-page document processing; standardized data workflow across teams
- Led a data standardization committee that defined and implemented policies for OCR & key-value extraction data formats to ensure data consistency and streamline pipeline workflows

### AI Researcher

Feb 2021 — Mar 2022

[Silvia Health](#)

Seoul, Korea

- Developed voice conversion framework using AutoVC and attention mechanisms to extract speaker-independent embeddings for cognitive impairment detection
- Built and deployed ML backend API for mobile app, implementing real-time speech analysis pipeline with acoustic feature extraction and cognitive scoring

## SELECTED PUBLICATIONS

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- [1] Cha, I., Oh, J., [Park, C. Y.](#), Han, J., Lee, H. “Unlocking the tacit knowledge of data work in machine learning” **CHI EA** (2023) [[abs](#)]
- [2] Heo, D., [Park, C. Y.](#), Cheun, J., Ko, M. J. “Separating content from speaker identity in speech for the assessment of cognitive impairments” **arXiv preprint** (2022) [[abs](#)]
- [3] [Park, C. Y.](#) et al. “K-EmoCon, a multimodal sensor dataset for continuous emotion recognition in naturalistic conversations” **Scientific Data, Nature** 7.1 (2020) [[abs](#), [doi](#)]

## SKILLS

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- **Programming Languages:** Python, JavaScript/TypeScript, SQL, Bash, HTML/CSS, Go
- **Backend/Infrastructure:** Docker, Kubernetes (EKS), AWS, GCP, BentoML, Streamlit
- **Tools & Frameworks:** PyTorch, Git, UNIX, React, Tailwind CSS, FastAPI, PostgreSQL