

Mark Hyunik Choi

Seoul, South Korea

<https://github.com/hikchoi>

<https://www.markhyunikchoi.com>

I am a software engineer with a passion for building **user-centric** tools that empower individuals in various domains. I am experienced in **end-to-end development**, excel in **problem-solving**, delivering **intuitive and pleasant user experiences**, and have a drive for continuous enhancements. I thrive when given **clear goals and reasoning**, constantly seeking innovative ways to optimize processes.

Skills

Languages	Javascript, Typescript, Python, SQL
Frontend	React, NextJS
Backend/API Design	Flask, FastAPI, NestJS, express, OpenAPI(Swagger)
Database	Postgres, RDS/Aurora, sqlite, prisma
Cloud/DevOps	Docker, AWS, AWS CDK, Terraform
AI	OpenAI, langchain, llama-index
Others	HCI, Research, UX design, Strong communication, Agile
Languages (spoken)	English (bilingual), Korean (native)

Work Experience

Dendron Inc.	July 2021 - May 2023
Software Engineer	Seoul, South Korea (Remote)

- Led end-to-end development process, implementing and optimizing core features for seamless user experience and efficient knowledge management at scale.
- Implemented internal APIs for AI/ML operations, leveraging large language models, and integrating them with core business logics to enhance functionality.
- Streamlined development workflows and communication processes, improving efficiency and knowledge transfer within the team, open source contributors, as well as publicly consumed documentations and references.

Tanker Inc.	Jan 2018 - June 2021
Software Engineer	Seoul, South Korea

- Developed and maintained core public/private services for providing real estate data, enabling enterprise level loan processing/analysis, as well as consumer level real estate brokerage and convenience services.

- Designed and implemented internal workflow management tools, optimizing operational efficiency in both technical teams and non-technical teams.
- Led DevOps improvements to reduce the cost of cloud infrastructure, resulting in a 70% cost saving in monthly AWS usage.
- Spearheaded efforts to standardize internal operational infrastructure, minimize costs, and establish documentation-friendly practices for ease of knowledge transfer among team members.

MINDsLab Inc.

May 2016 - Sept 2016

Software Engineer, Product Manager

Pangyo, South Korea / New Jersey, USA

- Managed a team of data scientists and software engineers to deliver an integrated VOC system for a large international electronics company's ERP department.
- Developed a pipeline for data collection, storage, management, analytics, and decision-making using a large speech recording corpus.
- Collaborated with UX designers and engineers to create a seamless user interface for the integrated system.

HCI Lab, University of Waterloo

Jan 2014 - May 2014

Undergraduate Research Assistant

Ontario, Canada

- Conducted controlled studies to evaluate the performance of a novel interaction technique called "Pinch-to-Zoom-Plus (PZP)" that enhances the standard pinch-to-zoom gesture.
- Contributed to weekly lab meetings as a member of the Human-Computer Interaction lab and provided study data that resulted in a published paper at UIST 2014.
 - [Jeff Avery, Mark Choi, Daniel Vogel, Edward Lank. Pinch-to-Zoom-Plus: An enhanced pinch-to-zoom that reduces clutching and panning. UIST 2014](#)
- Collaborated with professors and researchers to assess and improve the usability of interaction techniques.

Education

I2dea Lab (now SketchLab), KAIST

2015-2017

Candidate for Master of Industrial Design

Daejeon, South Korea

Incompleted due to unforeseen illness

- Granted National Scholarship equivalent to approximately USD 40,000 over 4 academic terms.
- Conducted research and development in a novel color recommendation system for designers; designed and implemented controlled studies to evaluate the system's effectiveness.
- Explored design methodologies in the area of multiple-device interaction.
- Contributed to the development of in-house data visualization methods used.

University of Waterloo

2011-2014

Batchelor of Computer Science, Honours

Ontario, Canada