Da-Woon Chung

Technical Skills

Back-End Development C++, Python, Node.js SQL (PostgreSQL, MariaDB) gRPC APIs, REST APIs

Front-End Development
TypeScript, Angular, React, SolidJS

ML Ops / Cloud Computing
TensorFlow and JAX Serving (GPU/TPU)
Google Cloud Platform (GCP)
Post-training Infrastructure

Languages

English (fluent)
Korean (mother tongue)
Japanese (bilingual)
Spanish (intermediate, B1)
German (basic, A2)
Finnish (intermediate, B1)
Rwandan (intermediate)

Work Experience

Google DeepMind, Senior Software Engineer

08. 2023 - Present | London, United Kingdom

Senior UX Engineer 11. 2022 - 08. 2023 | UX Engineer 01. 2021 - 11. 2022

- Led the integration of model serving into Gemini's human data collection platform, reducing failures in our team's model servers to near zero.
- Contributed to the development and maintenance of the full-stack platform for Gemini's human data collection using internal stacks in C++, Python, SQL and TypeScript; this platform has since evolved into the company's primary human data collection platform, supporting a large-scale data collection effort.¹
- Led the design, development and deployment of a full-stack platform for molecule visualisation and analysis (Next.js, D3.js, MolStar, GCP – Bigtable, BigQuery, Cloud Functions), supporting the incubation of Isomorphic Labs' Al-driven drug discovery research using AlphaFold.

Fjord², Creative Technologist

07. 2017 - 12. 2020 | Berlin, Germany

- Integrated technical solutions into service design projects, developing interactive user journey maps and insights dashboards for Volkswagen's mobility research.
- Developed and deployed high-fidelity prototypes using React, Node.js, PostgreSQL, MongoDB and Heroku to enhance user experience and validate design concepts with clients.
- Led several complex data visualisation projects using Three.js to present qualitative and quantitative data, enabling clients to gain actionable insights from user research.

Linja³, Interaction Designer & Developer

11. 2016 – 06. 2017 | Helsinki, Finland

 Engineered reusable templates for the internal dashboard platform of an aerospace and defence client, improving maintainability and reducing development time and ensured compatibility with legacy frameworks.

Aalto University, Web Designer & Web Developer - working student

09. 2015 – 11. 2016 | Helsinki, Finland

Designed, developed, and maintained websites for Aalto University, including 4
departmental sites for the School of Arts, Design and Architecture and online resources for
the university's library; these were the department's first websites to fully support mobile
browsers.

Moto, Web Designer & Web Developer - freelance, full-time

01. 2015 - 07. 2015 | Seoul, South Korea

Junior Industrial Designer 01. 2010 - 08. 2010

Spearheaded the development and launch of the company's first mobile-friendly website
using responsive design principles and WordPress, improving the company's ability to reach
and engage with customers on mobile platforms with maintainability for non-tech savvy
industrial designers.

University of Rwanda⁴, Lecturer

10. 2012 - 01. 2015 | Muhanga & Kigali, Rwanda

- Delivered lectures in computer science (C/C++ programming) and design (product, 2D & 3D graphics and motion design) to undergraduate students.
- Designed typing practice software for Rwandan students and conducted successful pilot runs, introducing a new curriculum to enhance their typing proficiency and overall computer literacy.

¹ Core contributor in Gemini publications: https://arxiv.org/abs/2312.11805, https://arxiv.org/abs/2403.05530

² Became part of Accenture Song in 2022

³ Acquired by Vincit in October 2017

⁴ Part of mandatory military service in South Korea

About:Blank, Web Designer & Web Developer - working student

04. 2011 – 03. 2012 | Helsinki, Finland & Seoul, South Korea

- Designed and developed the company's multilingual e-commerce platform using OpenCart, including features for product catalog management, user accounts, and online ordering.
- Developed a custom payment gateway plugin for Korean transactions.

Daejeon Institute of Education Information, Instructor – working student

01. 2008 – 12. 2008 | Daejeon, South Korea

 Taught robotics programming fundamentals to lower secondary school students using a humanoid robotics kit, covering concepts in introductory C programming and microcontroller control.

Education

Aalto University, MA in Collaborative and Industrial Design

08. 2010 – 07. 2016⁵ | Helsinki, Finland

 Redesigned and implemented the school's blogging platform using WordPress multisite feature for my master's thesis⁶ project, providing well-branded and fully responsive templates with a much more improved user experience for students and faculties.

KAIST, BSc in Industrial Design

02. 2006 - 01. 2010 | Daejeon, South Korea

- Awarded full scholarship
- Student representative (2009), spearheaded planning of final year exhibition
- Final year exhibitions showcased at 100% Design Tokyo and Week & T Seoul (sponsored by SK Telecom⁷).

⁵ Leave of absence: 07. 2012 – 08. 2015

⁶ https://urn.fi/URN:NBN:fi:aalto-201606162374

⁷ The biggest mobile network provider in South Korea