

SKILLS

- Program Language
TypeScript, JavaScript, Python, Dart
 - Database
Firestore, BigQuery, PostgreSQL, SQLite
- Frontend:
Svelte, React, Vue.js, Flutter
 - Backend:
Node.js
- Others:
Google Cloud Platform, Azure, Docker, Jest, Typesense, Appsheet, Looker Studio, Jupyter Notebook

EXPERIENCE

- CTO – Sojuhalle

Sept 2023 – Present

 - Build web application for Korean traditional drink sales using React and PayPal API
 - Develop ERP system to manage customer, order and inventory database and automate order and shipping process
 - Manage IT infrastructure to ensure robust, scalable, and secure systems that for organization growth and efficiency
- Full Stack Developer –ClearObject

May 2022 - Present

 - Develop and maintain Vision AI web application in Typescript and Svelte
 - Train and implement machine learning models such as OCR, object detection and classification for various computer vision applications like counting objects and detecting defects from images and videos
 - Migrate and optimize database to scale up >10X enhancing performance and search functionality
 - Leverage cloud solutions using GCP for 10+ projects such as video analyzing platform and lab equipment monitoring system
 - Write test script for source code and security rules and deployment script for CI/CD pipeline
 - Demonstrate ability to serve as a sole full stack developer and to communicate with clients effectively
- Process Engineer – Mattrix Technologies

Oct 2019 - May 2022

 - Developed image analysis application to detect CNT fibers and analyze data, saving annual licensing fee of \$7,500
 - Obtained data and conducted data analysis to characterize optoelectronic devices

PROJECTS

- Weight Lift Counter (2023)

 - Using Google ML kit (pose estimator), developed an application to detect and count reps for workouts in real-time
- Autonomous RC Car (2023)

 - Built Arduino-based self-driving RC car with obstacle avoidance incorporation using proximity sensor
- Zillow Scraper (2020)

 - Developed real estate data scraper using Selenium & Beautiful Soup and created data visualization with Tkinter
- Account Book (2020)

 - Developed an application for importing, categorizing and summarizing personal financial transactions

EDUCATION / CERTIFICATION

- Google Professional Machine Learning Engineer (2024)
- AWS Certified Solutions Architect - Associate (2023)
- Google Professional Cloud Architect (2023, 2025)
- Google Associate Cloud Engineer (2022)
- University of Waterloo – M.A.Sc Electrical & Computer Engineering, GPA: 3.9/4.0 (2019)
- University of Waterloo – B.A.Sc Nanotechnology Engineering, GPA: 3.7/4.0 (2017)