

# Brian In Sik Cho

## SKILLS

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- 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, Appsheets, Looker Studio, Jupyter Notebook

## EXPERIENCE

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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 – Matrix 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

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### 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

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- 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)