

Experience	Prism39 04/2022 – Present Head of Development <ul style="list-style-type: none"> Overseeing development and delivery of financial data enablement SaaS / managing development team of 5. Acquired asset manager client and a major substrate manufacturer by accelerating product development and supporting pre-sales operations. Scrum master of dev team of 5, assigning work items and managing delivery timeline with agile practice. Managed distributed database cluster for seamless scalability using Citus over 20TB of financial database. Achieved 70% faster data query speed and 40% improvement in hardware resource utilization via distributed DB. Reduced 95% data retrieval time by process optimization. (Hundreds of GBs are queried within seconds) Secured 70% infrastructure cost cut by constructing highly available hybrid cloud system (on-prem and AWS) with site-to-site VPN and a Virtual Private Cloud. Designed a centralized logging system across the entire platform to enhance monitoring, debugging and analysis. Introduced IaC for cloud management as part of operational risk minimization by AWS migration of object storage services, privacy sensitive database and partial API services. Automated financial data processing by deploying DAGs and managing Airflow in a Kubernetes cluster. Led operations data enablement SaaS using a Kubernetes cluster and implemented a CI/CD process using Jenkins. Applied LLM to unstructured financial data, enabled 10 times wide range of monitoring companies using financial data.
12/2018 – 12/2021	Tony's Coding Co-founder, CTO Autonomous Driving Middleware Bridge Solution <ul style="list-style-type: none"> Investigated pain points of autonomous driving control system development process, successfully proposed and sold ROS and CyberRT bridge solution to Vehicle Dynamics Control Laboratory (VDCL). Enabled the compatibility of community supported ROS packages with CyberRT. This strategic integration extends the usability of ROS packages into the commercial domain. Tailored and optimized the job scheduler of the Vehicle Control System within CyberRT, contributing to improved system efficiency and performance. Successfully deployed a fully automated self-driving car, demonstrating its capabilities on a test track at SNU. Topolar <ul style="list-style-type: none"> Played a pivotal role in the founding of the company, which has reached a valuation exceeding 5 billion KRW, employs 22 staff, sells globally, and is experiencing annual growth of more than 50%. Designed and implemented screen remote control enabled video chatting system using WebRTC allowing users to learn programming interactively. Reduced 90% of server cost by peer connecting users using signaling service.
03/2017 – 11/2018	Republic of Korea Army Sergeant <ul style="list-style-type: none"> Implemented morse message processing and storing system, applied software to entire 777 army working process, received recognition from 4-star general. Won 3rd place in a startup competition while serving as a soldier.
05/2016 – 03/2017	SkillSmith London Full-Stack Developer <ul style="list-style-type: none"> Prototyped, developed initial released knowledge sharing platform as a full-stack developer. Connected twilio api allow users to voice chat on client-side app.
Education	Imperial College London – B.Eng, Majored Computing, Mathematics
Skills	Languages: Korean(Native), Mandarin(Native); Python, C++, Typescript, Java, Rust Tech Stack: FastAPI, Django, ROS, CyberRT, Next.JS, AWS, On-premise, Airflow, Kubernetes, Jenkins, PostgreSQL, Citus, Polars, WebRTC, gRPC
Interests	Quant crypto trading, Art, Learning new tech.