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Byoungsung Lim

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I don't always know the answer, but I always find it, and I really enjoy the journey. I have learned that collaboration and shared ideas lead to stronger solutions, better outcomes, and meaningful growth. The challenge of building something bigger than myself is what drives me and I take pride in creating scalable systems, solving complex problems, and fostering teamwork along the way.

Skills

Programming Languages	Python, JavaScript, TypeScript, C++
Software Development	React, Next.js, Three.js, Shadcn, Tailwind CSS, FastAPI, Node.js, WebSockets, SQLite, MongoDB
AI/ML Frameworks	PyTorch, Hugging Face, Open3D, Kaolin, Replicate
DevOps & Tools	Docker, Turborepo, Electron, Nuitka

Technical Experience

AI/SW Engineer **Aug 2022 — Present**
Narnia Labs *Seoul, South Korea*

- Led software development for AI-powered 3D generative design software using Next.js and FastAPI.
- Established a monorepo integrating AI, backend, and frontend codebases, improving code maintainability and reducing AI code migration time to production by 7x.
- Developed high-performance 3D visualization tools with Three.js, React Three Fiber, and React Three Drei, achieving significant rendering performance improvements for 1K+ 3D meshes while optimizing client-side memory usage.
- Developed a CLI tool to standardize project setups, reducing the build processes and deployment time to under 10 minutes.

AI Engineer **Jun 2018 — Oct 2019**
Globaleur *Santa Clara, USA*

- Designed and built an AI-powered travel itinerary generator by solving Traveling Salesman Problem (TSP) with limited time windows, optimizing route generation time from nearly 1 minute to under 5 seconds.
- Implemented a recommendation system for optimizing travel routes based on user preferences.
- Developed backend services using Node.js and MongoDB to manage real-time itinerary updates.

Robotics Intern **Feb 2018 — Jun 2018**
MYNT AI *Santa Clara, USA*

- Enhanced computer vision algorithms for robotics navigation and object recognition, contributing to an optimized human avoidance system with success rate over 95%.
- Calibrated and maintained stereo cameras for improved 3D depth perception in robotic systems.
- Assisted in showcasing AI assistant robot at international trade events.

Product Design Intern **Jan 2015 — Nov 2015**
Samsung VIP Center *Suwon, South Korea*

- Conducted market research on AI-driven automation for retail applications.
- Developed and pitched a new product concept for smart home cleaning devices.
- Analyzed consumer behavior trends to identify potential opportunities for emerging tech solutions.

Education

Master of Science in Artificial Intelligence, *Korea University, Seoul, South Korea* Sep 2020 — Aug 2024
Exchange Research Program, *Drexel University, Philadelphia, USA* Dec 2021 — Aug 2022
Bachelor of Engineering in Biomedical Engineering, *Korea University, Seoul, South Korea* Mar 2014 — Aug 2020
Exchange Program, *Nanyang Technological University, Singapore* Aug 2018 — Dec 2018
Exchange Program, *KAIST, Daejeon, South Korea* Aug 2017 — Feb 2018

Activities

Dream AI Smart Device Hackathon, Ministry of Science and ICT *3rd Place, Seoul, South Korea* Oct 2020 - Dec 2020
- Developed deepfake detection AI models for YouTube creators and presented in tournament showcases.

Future Vehicle Hackathon, Korea University *2nd Place, Seoul, South Korea* Jul 2019
- Built a deep learning-based driver habit improvement tool and developed a lightweight electric vehicle.

Makathon, KAIST *1st Place, Daejeon, South Korea* Aug 2017
- Designed and developed an Arduino-powered magical wand for smart home automation.

TIGRIS, Korea University Ice Hockey Club *Captain, Seoul, South Korea* Mar 2014 - Present
Kasimov, Korea University Robotics Club *Team Member, Seoul, South Korea* Mar 2014 - Aug 2015