Chanbin Na

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EDUCATION

University of California, San Diego   La Jolla, CA
B.S. Mathematics-Computer Science, Minor Data Science   *Jun. 2025*
- **Coursework:** Data Structures, Algorithms, Software Engineering, Mathematical foundation of Machine Learning, Theory of Computation, Recommender System&Web Mining, Data Science&Optimization

EXPERIENCE

Darc Korea Association (Link: darc-incheon.com)   Seoul, South Korea
Full Stack Engineer   *Jun. 2024 – sep. 2024*
- Independently developed a **26-page end-to-end full-stack application** for **DARC Korean NGO** as a freelance developer.
- Implemented **NGO info**, **volunteer form with email notifications**, **donation features**, **appointment scheduling**, and an **admin panel** with secure login (**bcrypt**) for managing videos and text data using **MongoDB**.
- Deployed on **Vercel** and optimized **SEO** for Google and Naver.

Y STEM and Chess Inc.   Remote
Software Engineer Intern   *Mar. 2024 – July. 2024*
- Developed a new company website using **React.js** and **Node.js** with a **cross-functional team of six**.
- Managed and maintained the legacy website built with **Angular.js**, **Docker**, and **Node.js**.

Republic of Korean Army   Seoul, South Korea
Squad Leader, Signaller(Networking Specialized Solider)   *Dec. 2020 – Jun. 2022*
- Led and directed a team of 10 to achieve mission objectives in computer and system networking roles.
- Assembled **Ethernet and cellular networks**, with expertise in **LAN, Fiber Optic cables, and server management**.

PROJECTS

Generative AI Surgery Assistant (2024) | *Google Gemini Pro, OpenCV, Reflex*
- Developed 'StitchWitch', an AI-powered app for live surgery analysis, offering immediate error detection utilizing **generative AI** and **computer vision** to improve safety in **400,000+** annual procedures.
- Applied prompt engineering to 3 **Gemini Agents**, blending AI models with medical protocols through the **Reflex** framework, ensuring fluid communication and operational transitions within the app.
- Pitched to companies including Google, Intel, PSTC, Fetch.ai, and more in LA Hacks

STUDYSPHERE (2024) | *React, Node.js, Express.js, MySQL, Figma*
- Led a team of **5 developers** to create a study group matching website, ranking **top 10** in the 2024 LIKELION US Hackathon out of 60+ teams.
- Utilized **React** to design website UI and developed backend features (login, chat, group search and add function, video call).
- Implemented real-time chat function using **Socket.IO** along with **Node.js**, and used **MySQL** to store user data.
- Managed frontend/backend communication, **code review** and **issue tracking** in **GitHub**, boosting efficiency by **50%**.

Roommate matching Website – ACM (2023) | *TypeScript, Node.js, MongoDB, Express.js*
- Led a **Frontend team of 3 developers** to develop roommate matching website using **React** and **Node.js and Express.js** for backend.
- Used **MongoDB** to store user data, roomate preferences, other important configurations.

ACTIVITIES AND LEADERSHIP

Vice President — LIKELION @ UCSD   *Feb. 2024 – Present*
- Managed project teams, overseeing development, recruitment, assignments, and conflict resolution to meet deadlines.
- Delivered a weekly Web Development series, mentoring beginners to complete projects and master foundational skills like **HTML, CSS, JavaScript, React, Next.js, GraphQL, MongoDB (Link: Website)**

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, C/C++, C#, HTML/CSS, Bash
Frameworks: React.js, React-Native, Node.js, GraphQL, Express.js, Flask, JUnit, Reflex, Angular.js, Next.js
Developer Tools: Git, VS Code, IntelliJ, Jupyter Notebook, Figma, Vim, Google Gemini Pro (API), Docker, Vercel
Databases & Libraries: pandas, NumPy, Socket.IO, MongoDB, MySQL, OpenCV, Sklearn
Spoken Language: Korean, English