

# LILY LEE

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## EXPERIENCE

*Software Development Intern, Atom Tech Solutions, Remote*

*December 2024 - February 2024*

- Developed RESTful API routes and CRUD functionalities for business listings and reviews, ensuring seamless data management with MongoDB.
- Designed and implemented dynamic UI components using EJS templates, enhancing user interaction and experience.
- Built sorting and search features using DOM manipulation, improving business listing navigation and accessibility.

*Software Engineer and Manager, A-Round Entertainment, Remote*

*December 2023 - April 2024*

- Promoted to Manager after excelling as a Software Engineer, leading a team of 20 engineers to develop a full-featured iOS/Android dating app with advanced matching algorithms, real-time chat, and a premium subscription model
- Developed 100+ UI screens for mobile platforms, collaborating with UX designers via Figma to transform MVP requirements into functional designs, ensuring seamless user experience
- Integrated real-time chat functionality operating Firebase Cloud, React-Gifted-Chat, and media uploads via Image-Picker, boosting user engagement by 35%
- Led agile sprints and restructured team efficiency by 20%, delivering projects on time while working part-time (20 hrs/week)

*Frontend Developer, Bootcamp Project, (Seoul, South Korea)*

*June 2024 - July 2024*

- Completed a 30-day intensive AWS DevOps training, mastering Docker, Kubernetes, and AWS services (Lightsail, EC2), increasing deployment speed by 40% for the team's project
- Led frontend development in a full-stack application, implementing 5+ key features with TypeScript, Next.js, and AWS S3, ensuring secure authentication through NextAuth
- Optimized development pipelines and enhanced team collaboration, resolving code bottlenecks & improving system performance

*Founder and President, Korean International Student Org, Charlottesville, Virginia*

*January 2024 - Present*

- Founded KISO, growing membership from 0 to 100+ in one year, securing official registration as a Contracted Independent Organization at UVA
- Organized and led 7+ major events, including a South Korean Alumni Networking Event, attracting 100+ attendees, and obtained over \$5,000 in funding from sponsorship and partnerships
- Cultivated a strong network by forming partnerships with prominent organizations: Korean Embassy and A-Round Company

## SKILLS

- Languages: Java, Python, JavaScript, TypeScript, C, PHP, HTML/CSS, SQL
- Frameworks & Tools: SwiftUI, React Native, Next.js, React.js, Node.js, Firebase, Django, Bootstrap, TailwindCSS, Flutter, Gradle, Mockito, JUnit 5
- Databases: PostgreSQL, SQLite, Firebase, NoSQL, MongoDB
- Cloud & DevOps: AWS (EC2, S3, Lightsail), Docker, Vercel, Cloudflare, Ubuntu

## KEY PROJECTS

**Real Estate Proxy Contract Mobile App**, github.com/Hometract/ios

*May 2024 - Present*

- Developed a SwiftUI-based mobile app enabling foreign nationals to manage real estate contracts in South Korea, including key features social login (Google and Apple) and identity verification
- Implemented features for contract access, electronic signature, and post-contract management, optimizing user onboarding efficiency and reducing contract processing time by 25%

**Personal Website Deployment**, leelily.com

*August 2024 - Present*

- Deployed a personal website on a mini-PC leveraging Proxmox for virtualization and Ubuntu, configured Nginx Proxy Manager for managing domain routing and SSL certificates, ensuring secure and efficient web traffic handling
- Integrated Cloudflare for DNS management, and performance optimization, improving site reliability and reducing load times

**Mannazu**, mannazu.com

*June 2024 - August 2024*

- Constructed login pages, e-commerce shopping pages, and an admin dashboard using Next.js and TypeScript, incorporating user authentication and image uploads via AWS S3
- Designed interactive interfaces using Figma and Excalidraw, employing NextUI and intuitive user experience

**Sublease.com**, github.com/lilyhyojeonglee/Sublease-Web

*January 2024 - May 2024*

- Engineered a location-based sublease platform using Google Maps API, integrating PHP for backend functionality and Bootstrap and HTML for responsive frontend design
- Implemented secure user authentication, client-side input validation, and asynchronous AJAX queries, enhancing data security and platform usability

## EDUCATION

**University of Virginia**, Bachelor of Arts and Sciences, Charlottesville, VA

*Expected May 2025*

Major in Computer Science, Minor in Psychology | GPA: 3.6/4.0

- Awards: Echols Scholar, Dean's List, Hackathon Winner 2022