

# Seongjae Bae

HCI Developer | Research-driven product builder in UX, mobile, and prototyping

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dingg2ding.github.io/

## Education

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Mar 2025 – Present	<b>M.S. Student, Computer Science</b> Human-Data Interaction Lab   HCI, mobile tracking, data visualization   Advisor: <i>Bongshin Lee</i>	Yonsei University
Mar 2018 – Aug 2024	<b>B.S. in Smart ICT Convergence</b> Minor in Applied Statistics   GPA: 3.94/4.5 Selected honors: 2023 Immersive Media Grand Award; 2022 Self-Designed Semester Excellence Award	Konkuk University

## Experience

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Sep 2024 – Feb 2025	<b>Research Assistant</b> Human-Data Interaction Lab	Yonsei University, Seoul, Korea
Mar 2026 – Jun 2026	<b>Teaching Assistant</b> Capstone Design for Artificial Intelligence (CAS4102)	Yonsei University, Seoul, Korea
Sep 2025 – Dec 2025	<b>Teaching Assistant</b> Introduction to Human-Computer Interaction (CAS2201)	Yonsei University, Seoul, Korea
Mar 2025 – Jun 2025	<b>Teaching Assistant</b> Introduction to Data Visualization (CAS4150)	Yonsei University, Seoul, Korea

## Projects

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2025.07 – Present	<b>DrugQ</b> Multimodal OTC drug safety assistant prototype for Android research workflows. <ul style="list-style-type: none"><li>Focused on healthcare research support through multimodal interaction and safety-oriented assistance</li></ul>	Android / AI
2025.03 – Present	<b>SalusChart</b> Mobile-first data visualization library for health and tracking data. <ul style="list-style-type: none"><li>Designed reusable visualization components for mobile healthcare and tracking contexts</li></ul>	Android / Compose
2025.01 – Present	<b>ReBloomLens</b> Routine-based health tracking platform for breast cancer survivors. <ul style="list-style-type: none"><li>Built around reflection, visualization, and long-term health data engagement</li></ul>	Samsung Health / AI Reflection
2025.09 – Present	<b>INSPIRE</b> Production-level research tracking app for collecting survey, audio, and Samsung Health data in real-world nursing studies.	Android / Research
2025.03 – Present	<b>Modular Data Tracking Application Platform</b> Plugin-based, configuration-driven mobile tracking platform for research studies. <ul style="list-style-type: none"><li>Structured for modularity, reuse, and scalable deployment across study settings</li></ul>	Android / Platform
2023.07 – 2023.11	<b>ARemedy</b> AR-based realistic media prevention solution for drug education. <ul style="list-style-type: none"><li>Defined the problem space through stakeholder interviews and designed immersive AR storytelling</li></ul>	AR / iOS
2022.03 – 2022.12	<b>Docent</b> Personalized emotional ad-copy application delivered end-to-end. <ul style="list-style-type: none"><li>Applied GPT-based copy transformation with segmented personalization and production tooling</li></ul>	iOS / AI

2023.03 – 2023.06	<b>KU:Map</b> Campus map application for Konkuk University focused on discoverability and campus information access. <ul style="list-style-type: none"> <li>• Led UI/UX design and frontend development with Flutter, Provider, and Figma</li> </ul>	Flutter / UX
2023.08 – 2023.12	<b>HI Plant</b> Plant management application focused on intuitive interaction and day-to-day usability. <ul style="list-style-type: none"> <li>• Contributed to UI/UX design, feature planning, and Android application development</li> </ul>	Android / UX

## Publications, Posters, and Presentations

Hwang, S.\*; Bae, S.\*; Ahn, J.; Shao, Z.; Choe, E. K.; & Lee, B. (2026). **SalusChart: A Data Visualization Library for Mobile Health Apps**. IEEE VIS 2026 Short Papers. *[Under Review]*

Lee, B.; Bae, S.; Li, M.; & Choe, E. K. (2026). **Envisioning Mobile Data Visualization Libraries for Digital Health**. IEEE Computer Graphics and Applications, Visualization Viewpoints. *[Under Review]*

Li, M.; Kommaraju, H.; Lee, J. G. W.; Bae, S.; Ao, S. A.; Lee, B.; & Choe, E. K. (2026). **Understanding Over-the-Counter Medication Decision-Making Among Older Adults and Caregivers**. AMIA 2026 Symposium. *[Under Review]*

Li, M.; Kommaraju, H.; Bae, S.; Lee, J.; Ao, S. A.; Cox, J.; Lee, B.; & Choe, E. K. (2026). **Empowering Older Adults and Caregivers to Make Safe Nonprescription Medication Decisions**. a2 National Symposium.

\* Equal contribution.

## Patents

2017	<b>Granted Patents and Designs</b> Chinese cabbage salting unit/method. Culinary picklers; pickler container.	Korea
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## Technical Skills

<b>Design</b> <b>Development</b> <b>Tools</b>	UX design, mobile design, visualization, wireframing, Figma prototyping Kotlin, SwiftUI, iOS, Java, Dart, Python, JavaScript, R SamsungHealth SDK, HealthConnect, ARKit, Firebase, Supabase, SQLite, Git
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