



# Seung Hyun Nam

Web Developer

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## 👤 About Me

*“Identifying real-world operational problems and turning them into actionable solutions with AI and automation.”*

I specialize in analyzing repetitive tasks and inefficiencies in operations and workflows, then improving them through web development, AI, and automation tools. I value fast experimentation, validation, and building practical structures that users can easily adopt in their daily work.

## 🎓 Education

### Furman University

BA in Japanese Studies | South Carolina, USA

2014.08 ~ 2018.05

- GPA: 3.89 / 4.0
- Phi Beta Kappa Member
- Relevant Courses:
  - Intro to Programming
  - Intro to Discrete Math
  - Vectors and Matrices
  - Differential Equations
  - Analytic Geometry & Calculus
  - Statistics

## 📁 Work Experience

- dataSpring Korea** 2022.02 ~ 2025.06

Survey & Solutions Coordinator | Seoul, South Korea

Identified repetitive tasks, input errors, and workflow inefficiencies in client survey operations and internal processes, improving operational efficiency and stability through web development and automation tools.
- Internal Quotation Automation Tool — instaQuote**

| [Site](#) · [GitHub](#) | *instaQuote: React rebranding version, excluded internal data/client information*

  - Analyzed a manual quotation workflow that required repeated checks across documents and sheets for client information, quotation items, and option conditions.
  - Designed an end-to-end flow for quotation creation, lookup, management, and automated output.
  - Developed and deployed an internal web tool using Google Apps Script, HTML, CSS, and JavaScript.
  - Implemented validation, option controls, automated calculations, dashboards, and quotation generation.
  - Improved input flow and error handling based on user feedback, reducing preparation time, input errors, and repeated manual checks.
- Workflow Automation & Development Productivity**

  - Built automation scripts for repetitive survey programming, data organization, and configuration tasks using JavaScript, Google Apps Script, and macro tools.
  - Organized and documented frequently used survey scripts and recurring code patterns for team-wide reuse.
  - Conducted demos for overseas teams and improved usage flows so internal users could apply automation scripts more easily.
  - Reduced selected manual tasks from over an hour to seconds, improving team processing speed and code reuse.
- PanelNow App Survey Flow & Client Integration**

  - Developed and operated survey UIs and app/webview screens using HTML, CSS, JavaScript, and jQuery.
  - Implemented conditional branching, required-field validation, response completion handling, and external platform parameter integrations.
  - Improved screen and response-flow issues across mobile webview and PC environments.
  - Strengthened survey operation stability and external integration flows by considering both client requirements and real user response environments.

# Courses

## Boostcourse | Naver Connect

2025.05 ~ 2025.06

- **Computer Science for Everyone** (Harvard CS50)
  - Computational thinking, C programming, algorithms, memory, and data structures

## SmartLearn | POSTECH, POSCO

2020.11 ~ 2021.01

- **Introduction to Computer Engineering I & II**
  - C programming, functions, control flow, file I/O, arrays, and structures
- **Python Programming I & II**
  - Python fundamentals, functions, modules, data structures, and problem solving

# Skills

## Automation / AI:

n8n, Google Apps Script, Macro Tools (Monstar Deck), ChatGPT Codex, JSON Schema

## Frontend:

HTML, CSS, JavaScript, TypeScript, React, Tailwind, Zustand, TanStack Query

## Backend / API:

Node.js, NestJS, Express.js, TypeORM, REST API

## Data:

MySQL, MongoDB, Google Sheets, JSON, JSONL

## DevOps:

AWS, Google Cloud, Azure, Docker, Nginx, GitHub Actions, Cloudflare, Vercel

## Testing:

Jest, Vitest, Storybook, Postman

## Tools:

Figma, Notion, Jira, Git

# Bootcamp

## Boostcamp Web Full-Stack Membership

2025.06 ~ 2026.02

Naver Connect Foundation | Seoul, South Korea

Built React, TypeScript, and Node.js services while automating content generation with AI and n8n through problem analysis, prototyping, validation, and refactoring.

## Funda | Gamified CS Learning Platform

| [Site](#) · [GitHub](#)

React, TypeScript, Emotion, Vite, TanStack Query, Zustand, Socket.io, NestJS, MySQL, Docker, GitHub Actions, nginx, Vitest, Storybook, Turborepo

## 1) n8n + AI-Based 6,000-Question Generation Pipeline | [Documentation](#) · [n8n](#)

Addressed a 60+ hour manual CS quiz creation process with risks of formatting errors and repetitive human mistakes.

- Designed an n8n workflow to iterate through Google Sheets curriculum data.
- Split AI generation, parsing, and JSON Schema-based output validation.
- Validated content/answer structures by question type and converted outputs to JSONL.
- Added checkpoints and retryable execution for long-running workflow stability.
- Documented key nodes and troubleshooting so teammates could run the workflow directly.

Reduced the 6,000-question creation flow to about four hours and enabled section-level generation by teammates.

## 2) Authentication State & Loading UX | [PR #230](#), [#443](#)

Resolved logged-out UI exposure and loading instability caused by rendering before auth state resolution.

- Refactored authentication lookup with TanStack Query's `useSuspenseQuery`.
- Controlled pre-auth UI exposure with an `isAuthReady` guard.
- Removed global Provider-level Suspense and handled loading at necessary screen-level boundaries.

Reduced incorrect UI exposure before auth resolution and improved UX by limiting loading boundaries to the necessary scope.

## 3) Real-Time Battle Timer Accuracy & Rendering Performance | [PR #411](#), [#422](#)

Production countdown drift and full-page re-rendering occurred due to timer logic scattered across multiple components.

- Corrected client-side time differences using serverTime-based offset calculation.
- Separated timer display and sound responsibilities into dedicated components.
- Reduced rendering scope by removing scattered timer logic.

Secured consistent server-based countdowns and clarified state update and rendering responsibility boundaries.

## CS-Based Implementation Missions & Problem Analysis

- Validated internal system behavior through direct implementation of OS concepts, event loops, asynchronous EventManager, XML Parser, and mini Git.
- Strengthened the ability to break down and solve complex problems through repeated cycles of analysis, structural design, implementation, testing, and refactoring.

## ✈ Global

### USA | About 12 years & 5 months

- **Texas** | Formal Education · Graduate School
  - Completed elementary, middle, and high school education. (2006.07 ~ 2014.05)
  - Studied in the International Studies master's program at Texas State University for 1 year before withdrawing. (2019.08 ~ 2020.04)
- **South Carolina** | Undergraduate School
  - Graduated from Furman University with a Bachelor of Arts in Japanese Studies. (2014.08 ~ 2018.05)

### Japan | About 1 year & 11 months

- **Fukuoka** | Study Abroad · Working Holiday
  - Studied as an exchange student at Seinan Gakuin University. (2016.08 ~ 2017.05)
  - Worked at SHI. INC Residence Hotel, handling facility management, front desk service, customer phone support, data entry, and office assistance. (2018.09 ~ 2019.06)
- **Tokyo** | Internship
  - Interned at TMJ Japan Ltd., handling Korean-English-Japanese interpretation and translation, transcription, document organization, and office assistance. (2018.05 ~ 2018.07)

## 🗣 Language

- English (TOEIC Speaking AL, 2017)
- Japanese (JLPT N1, 2018)

## 🎮 Hobbies

- Weight Training
- Tennis
- Table Tennis
- Violin
- Chess

## 📖 Bootcamp (Continued)

### ○ **AI Applied SW Development & Data Analysis** 2021.02 ~ 2021.08

Encore Playdata | Seoul, South Korea

Studied web service development and data/AI fundamentals, including user-input flows, stored data, UI state, and basic AI model training.

### ● **ONEGO** | AI Writing Assistance Web Service

| [Site](#) · [GitHub](#) | Test Login → Email: test@example.com, PW: test1234

Vue, Vuetify, Vuex, TypeScript, JavaScript, HTML, CSS, Spring Boot, MongoDB, Docker, GitHub Actions

- Built search, account, profile, saved/published post, and writing screens for an AI writing service.
- Introduced Vuex to centralize writing-state access and separate state into modules.
- Experienced client-server flows connecting user input, stored data, and UI state.

### ● **Full-Stack Web Development & Python Data/AI Fundamentals**

- Studied Java, Spring Boot, MySQL-based web architecture, and client-server integration.
- Built ANN, DNN, and CNN models with Python, TensorFlow/Keras, and PyTorch for image classification.

## 📁 Additional Projects

### ○ **Personal Projects** 2026.04 ~ 2026.06

#### ● **Narrive** | AI-Based Investment Research Automation Web Service

| [Site](#) · [GitHub](#) · [n8n](#)

Next.js, TypeScript, Tailwind CSS, Prisma, PostgreSQL, TanStack Query, n8n, Gemini, RapidAPI, Vercel

- Built an AI-assisted investment research workflow by connecting Next.js, n8n, Gemini, RapidAPI, and PostgreSQL.
- Implemented report generation, saving, and retrieval flows for symbol-based AI investment reports.
- Processed symbol search, trending tickers, and market calendar data through server APIs.
- Used ChatGPT Codex for requirements documentation, implementation planning, code review, testing, and iterative refinement.

#### ● **IoT Automation** | State-Based Personal Automation Project

| [Blog](#)

- Automated IoT power strip control using the Google Assistant API, shell scripts, and macOS Automator.
- Configured DAS power-off when unused, plus power-on, mount, and open flows through Finder-based automation.
- Automated MacBook charging power control based on sleep/wake events to reduce manual operation and unnecessary power supply.