SEAN KIM

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EDUCATION

Rutgers University-New Brunswick GPA: 3.88

Bachelor of Arts - Computer Science Expected Graduation: May 2026

- **Relevant Coursework:** DSA, Deep Learning, Databases, Data Management, Computer Architecture
- **Dean's List:** 2022-2024

EXPERIENCE

ACL Agency LLC May 2024 - Aug 2024

Full-Stack Developer Intern Ridgefield, NJ

- Rebuilt company website with **SvelteKit**, adding SEO-friendly Korean language support with SSR which boosted site traffic by **30%** and conversion rate by **25%**, increasing market presence in the local community.
- Optimized an internal **Go** service with **goroutines**, achieving a **42%** increase in insurance claims processing speed on over **500** concurrent OCR and file compression tasks.
- Deployed service on **AWS EC2** with **Nginx** for SSL termination and whitelisting using **Docker Compose**.

PROJECTS

grammacy | GitHub | grammacy.com

Python, spaCy, Flask, Nginx, Docker, AWS EC2, SvelteKit, Firebase

- Led a team of 3 to develop a grammar-checking library with **spaCy** featuring a CoNLL-U corpus augmentor that improved processing speeds on OntoNotes 5.0 by **over 10x** with parallel and concurrent processing.
- Built a prepackaged English model by training a dependency parser **(93% LAS)** and POS tagger **(98% accuracy)** on an augmented GUM corpus, checking **over 20** grammar errors with **83%** accuracy.
- Constructed a **Flask** API endpoint with **Gunicorn** to serve the model with **15ms** average prediction times.
- Deployed the endpoint behind an **Nginx** reverse proxy for SSL termination and rate limiting on **AWS EC2** using **Docker Compose**, handling **over 500** concurrent requests with **under 50ms** average response times.
- Created a **SvelteKit** site for library documentation and API guides, deployed on **Firebase Hosting**.

ref:note | GitHub | refnote.app

Go, TypeScript, Node.js, Next.js, OAuth2, Docker, GCP, Vercel

- Deployed a **Next.js** collaborative note editor on **Vercel**, leveraging server components to securely proxy **over 50,000** daily requests, shielding sensitive payloads from clients with **less than 50ms** latency.
- Implemented **Yjs** real-time collaboration using a **Node.js WebSockets** server deployed as a **Docker container** on **Google Cloud Run**, handling **over 1000** concurrent note edits with **100%** consistency between clients.
- Built a horizontally-scaling **Go** backend **Docker-packaged** on **Google Cloud Run** to handle **Firestore** database operations for user data, note data, and granular access control with **under 100ms** cold starts.
- Secured all API endpoints using **OAuth2** and **JWT** to enable safe access for **1000** daily active users.

TECHNICAL SKILLS

Languages: Python, Go, TS/JS, Java, C, SQL, OCaml

ML/DS: NumPy, Pandas, PyTorch, OpenCV, spaCy, NLTK

Full-Stack Development: Nginx, Flask, Node.js, Express.js, React.js, Next.js, SvelteKit, Tailwind

Tools and Platforms: Git, AWS EC2, GCP, Vercel, Docker