

SEAN KIM

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EDUCATION

Rutgers University-New Brunswick
Bachelor of Arts - Computer Science

Sep 2022 - May 2026
GPA: 3.90

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

EXPERIENCE

ACL Agency LLC
Software Engineer Intern

May 2024 - Aug 2024
Ridgefield, NJ

- Rebuilt company website with **SvelteKit**, increasing market presence in the local community with SEO-friendly Korean language support which boosted site traffic by **30%** and increased conversion rate by **25%**.
- Optimized an internal **Go** service with **goroutines**, processing **over 500** batch insurance claims **42%** faster.
- Migrated service to a horizontally scaling architecture on **AWS EC2** using **Docker**, **ELB**, and **EC2 Auto Scaling**, reducing infrastructure costs by **19%** while accommodating a **12%** customer base expansion.
- Implemented a **MySQL** database on **Amazon RDS**, automating manual data processing which reduced data entry errors to **under 1%** and saved **13 hours** per week in employee time on data searching and validation.

PROJECTS

ref:note | [GitHub](#) | [refnote.app](#)

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

- Launched a **Next.js** collaborative note editor on **Vercel**, supporting **500** concurrent collaborative sessions.
- Enabled real-time collaboration using a **Node.js WebSockets** server on **Google Cloud Run** with **Docker**, synchronizing horizontally scaled instances via **Redis Pub/Sub** which reduced infrastructure costs by **37%**.
- Deployed a horizontally-scaling **Go** backend on **Google Cloud Run** with **Docker**, maintaining **sub-100ms** cold starts and processing Firestore operations **over 50%** faster to support **over 5,000** daily requests.
- Streamlined user authentication with **OAuth2** and **JWT**, improving user registration conversion rates by **17%**.

grammacy | [GitHub](#) | [grammacy.com](#)

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

- Developed a grammar checking library with **spaCy**, achieving **83%** accuracy on over **20** English grammar errors.
- Engineered a **Flask** API hosted on **AWS EC2**, configured with **Docker Compose** and an **Nginx** reverse proxy to handle **over 250** concurrent requests at peak traffic with **sub-200ms** end-to-end latency.
- Reduced deployment costs by **27%** and improved latency by **71%** via the library's efficient model architecture.
- Parallelized a CoNLL-U augmentor, achieving a **10x** speedup and increasing feature velocity by **20%**.
- Created an interactive **SvelteKit** documentation site on Firebase, reducing library integration time by **30%**.

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, GCP, Vercel, Docker, Redis