

SEAN KIM

(201)-937-7441 | [Email](#) | [GitHub](#) | [LinkedIn](#) | [Portfolio](#)

EDUCATION

Rutgers University-New Brunswick
Bachelor's in Computer Science

Sep 2022 - May 2026
GPA: 3.90

- **Relevant Coursework:** Data Structures and Algorithms, Databases, Computer Architecture, Deep Learning, Intro to Data Science, Linear Programming, Linear Algebra
- **Dean's List:** 2022-2024

EXPERIENCE

ACL Agency LLC
Software Engineer Intern

May 2024 - Aug 2024
Ridgefield, NJ

- Reduced infrastructure costs by **19%** while accommodating a **12%** customer base expansion by migrating cloud infrastructure to **AWS EC2** using **Docker**, **Elastic Load Balancer**, and **EC2 Auto Scaling**.
- Processed **over 500** batch insurance claims **42%** faster by optimizing an internal **Go** service with goroutines.
- 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%**.

PROJECTS

copium | [GitHub](#) | [copium.dev](#)

Go, Python, TypeScript, SQL, SvelteKit, Nginx, Docker, GCP

- Built a **SvelteKit** internship management platform using **Firestore** to manage user data and live postings.
- Scaled search engine indexes to **10k** concurrent operations with **Cloud Pub/Sub** and optimized **Go** consumers.
- Delivered an **80%** reduction in query latency for **BigQuery** data analytics by leveraging CQRS architecture.
- Implemented compensating transactions for consistency across data stores with a **99.9%** successful retry rate.
- Achieved **sub-100ms** page load latency and reduced data transfer costs by **50%** with paginated Algolia searches.

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

Python, spaCy, Flask, Nginx, Docker, AWS

- Developed dependency tree-based grammar checking with **spaCy**, achieving **83%** accuracy on **20** English errors.
- Handled **over 250** concurrent requests with **sub-200ms** latency with a **Flask** API hosted on **AWS EC2** through **Docker Compose** and **Nginx**, enabling real-time and high-scale correction on a t2 nano instance.
- Boosted F1-score by **15%** by developing a CoNLL-U augmentor that injects targeted, realistic grammar errors over random mutations, parallelized to accelerate augmentation speeds by **10x** and improve feature velocity.

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

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

- Launched a **Next.js** collaborative note editor on **Vercel**, supporting **1000** concurrent collaborative sessions.
- Reduced deployment costs by **37%** by optimizing **Node.js WebSocket** synchronization with **Redis Pub/Sub**.
- Deployed a **Go/Docker** backend on **Cloud Run** with **sub-50ms** cold starts for low-latency **Firestore** queries.
- Streamlined user authentication with **OAuth2** and **JWT**, improving user registration conversion rates by **17%**.

TECHNICAL SKILLS

Languages: Go, Python, TypeScript, JavaScript, Java, C, SQL

Libraries & Frameworks: Flask, Node.js, Express.js, Next.js, SvelteKit

Tools & Platforms: Git, AWS, GCP, MySQL, MongoDB, Docker, RabbitMQ, Nginx