

# SEAN KIM

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## EDUCATION

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**Rutgers University-New Brunswick**

Sep 2022 - May 2026

B.A. in Computer Science

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

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**ACL Agency LLC**

May 2024 - Aug 2024

Software Engineer Intern

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

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

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

- Built a **SvelteKit** internship management platform using **Firestore** to manage user data and live postings.
- Scaled search engine indexing to **10,000** concurrent operations with a distributed **RabbitMQ** and **Go** pipeline.
- Delivered an **80%** reduction in query latency for **BigQuery** data analytics by leveraging CQRS architecture.
- Achieved **sub-100ms** page load latency and reduced data transfer costs by **50%** with paginated Algolia searches.

**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%**.

**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 at peak traffic with **sub-200ms** end-to-end latency by engineering a **Flask** API hosted on **AWS EC2** configured with **Docker Compose** and an **Nginx** reverse proxy.
- Sped up augmentation times by **10x** and boosted feature velocity by **20%** by parallelizing a CoNLL-U augmentor.

## TECHNICAL SKILLS

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

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

**Tools & Platforms:** Git, AWS, Google Cloud Platform, MySQL, MongoDB, Docker, RabbitMQ, Nginx