

KENICHIRO GOTO

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EDUCATION

Ritsumeikan University

Ibaraki, Osaka, Japan

Bachelor of Science, College of Information Science and Engineering

Apr 2023 – Mar 2027

- GPA: 3.46 / 4.00
- Relevant Coursework: Data Structures and Algorithms, Data Science, Operating Systems, Computer Networks
- Research Focus: Diffusion Models, Open Vocabulary Detection, Computer Vision, Deep Learning

EXPERIENCE

Software Engineer (Internship)

Jun 2025 – Present

pixiv Inc.

Tokyo, Japan

- Built a batch job to update user statuses across a 100M-row MySQL table with idempotent per-record processing and partial-failure recovery
- Removed critical-path full-table scans by tuning indexes until EXPLAIN showed const access
- **Tech:** Scala 3, Play Framework, MySQL, JavaScript

Software Engineer (Internship)

Aug 2025 – Sep 2025

CyberAgent, Inc. — AbemaTV Division

Tokyo, Japan

- Built a distributed load-testing platform targeting 100,000 RPS for 2026 FIFA World Cup live-event validation
- Automated provisioning on GCP/GKE with Terraform for reproducible benchmarks
- **Tech:** Go, Terraform, GCP, GKE, Kubernetes

Software Engineer (Internship)

May 2025 – Jun 2025

Finatext Holdings Ltd.

Tokyo, Japan

- Built REST APIs for an internal analytics dashboard so analysts could access financial data without SQL
- Integrated AWS data pipelines for real-time reporting
- **Tech:** Go, AWS, MySQL

PROJECTS

mompiler — C Compiler from Scratch

- Built a C subset compiler with tokenization, recursive-descent parsing, AST construction, and x86-64 code generation
- Added golden tests, GitHub Actions CI, and Dockerized Linux/amd64 builds
- **Tech:** C, x86-64 Assembly, Docker, Make, GitHub Actions

Aurelia — Job Board Web Application

- Built a full-stack job board with JWT authentication, job CRUD, and salary range filtering
- Structured the service with clean architecture and Docker Compose
- **Tech:** Go, gorilla/mux, PostgreSQL, Docker, JWT

World Monitor — Real-Time Global Intelligence Dashboard

- Built a real-time intelligence dashboard combining AI-powered news, geopolitical signals, infrastructure events, and market data
- Designed a resilient web/desktop data pipeline with proxy handlers, a Tauri sidecar, caching, and fallback behavior
- **Tech:** TypeScript, Vite, Tauri, Playwright, MapLibre GL, deck.gl

SKILLS

Languages: Go, Scala, Python, TypeScript, C, SQL

Backend & Infra: Play Framework, Echo, GCP, AWS, Kubernetes, Terraform, Docker, PostgreSQL, MySQL

Other: PyTorch, Next.js, Git