

# Daniel Chae Software Engineer

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## EXPERIENCE

**Software Engineer, Kubrick** [↗](#) 2025 – Present

Kubrick ([kubrick-ai.com](#) [↗](#)) is an open-source deployable ingestion pipeline and API for multimodal semantic search over video, enabling users or RAG systems to retrieve video segments using natural language, images, audio, and video queries.

- Prototyped and created an automated data pipeline that leverages event-driven architecture to scalably and reliably generate vector embeddings for video content (S3, SQS, Lambda).
- Designed and implemented an auto-scaling RESTful API allowing clients to easily call video ingestion and search endpoints (AWS API Gateway + Lambda).
- Developed a guided CLI tool enabling easy automated infrastructure deployment to AWS (Terraform, TypeScript).
- Reduced search latency by 60% by refactoring S3 API calls to use asynchronous threads and optimising database queries with an HNSW aNN index (Python, Lambda, PostgreSQL, pgvector).
- Built an interactive “playground” web app allowing users to experiment with the Kubrick API (S3 Static Sites, CloudFront, React, Next.js).
- Engineered an observability layer to expose real-time insights into video processing and vector embedding workflows (Lambda, SQS, and PostgreSQL).
- Collaborated with a team of four engineers across three countries, running daily standups and coordinating agile feature development.

**Software Engineer, Self-employed** 2022 – 2025

Developed freelance and open-source applications including:

- **rBasket** [↗](#) - Self-hosted tool for collecting and debugging webhooks. Built with DO Droplets, Nginx, MongoDB, Express, and React
- **Canter** [↗](#) - A modular Neovim code runner plugin integrating Snacks terminal (Lua).
- **clementine** [↗](#) - A terminal-based AI coding assistant and pair programmer built with Mastra, Ink, and React.

**Editor / Title Lead (Netflix), Industry Art Works** 2021 – 2024

- Served as the main point of client-facing contact, successfully managing the entire product lifecycle across teams to ensure timely delivery of final image assets for multiple high-profile Netflix titles.
- Developed and led trainings in technical digital asset management workflows.

**SGT,** 2019 – 2021

*ROK Army – Capital Mechanized Infantry Division Artillery Brigade, 808th*

- Short-term deployment to Incheon Airport Quarantine Office as an AQSF translator, working with KDCA to minimize introduction and transmission of COVID-19 from foreign countries.

## EDUCATION

**University of Chicago, BA, Philosophy with General Honors** 2015 – 2019

- 3.7 GPA, Dean's List 2016-2019, Odyssey Scholar

## SKILLS

| Languages   | Frameworks & Runtimes   | Cloud & Infrastructure   | Data & DevOps   |
|---|---|--|---|
| JavaScript (ES6+),<br>TypeScript, Ruby,<br>Python, C++, Lua, Bash,<br>HTML, CSS | React, Next.js, Astro,<br>Node.js, Express,<br>Sinatra, Flask,<br>LangChain, LangGraph,<br>Mastra | AWS (Lambda, EC2, S3,<br>SQS, API Gateway, ELB,<br>IAM, Bedrock, RDS),<br>DigitalOcean, Heroku,<br>Terraform | PostgreSQL, pgvector,<br>Pinecone, MongoDB,<br>DynamoDB, Git/GitHub,<br>Docker, NGINX,<br>Swagger/OpenAPI |