

# Chloe Kwon

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## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Python, Kotlin, Java, C, HTML, CSS

**Frameworks & Libraries:** Next.js, React.js, Express.js, Node.js, Django, Flutter, Tailwind CSS, JavaFX

**Databases & Storage:** PostgreSQL, MySQL, MongoDB, Firebase, Supabase

**Cloud & DevOps:** AWS EC2, AWS S3, AWS Rekognition, Docker, docker-compose, Cloudinary

**Tools & Platforms:** Git, GitHub, Agile Development, Jira, Trello, Power BI

## EDUCATION

### British Columbia Institute of Technology

*Diploma in Computer Systems Technology, BCIT*

Vancouver, BC

Jan 2024 – Present

### Hanyang University

*Diploma in Music Composition*

Seoul, Korea

Jan 2014 – May 2016

## PROJECTS

### Boats Animator(Open Source) | *React, TypeScript, Redux, Electron, @dnd-kit, Node.js*

Sep 2025 – Dec 2025

- Contributed major UI/UX and state-management features to a production-used open-source stop-motion editor, collaborating via GitHub fork workflow and sprint-based development
- Fixed critical video export failures by implementing a temp-directory copying mechanism and correcting file-path logic
- Engineered a multi-frame selection system enabling batch delete/insert workflows across multiple components, significantly improving editing efficiency
- Implemented an Insert Mode with synchronized state between CaptureContext and PlaybackContext, supporting precise frame capture at arbitrary positions
- Developed an automatic take relabeling mechanism that maintains consistent naming and prevents data inconsistencies after insert/delete operations

### AI-powered interview platform | *Next.js, Firebase, Google Gemini 2.0, Vapi AI*

June 2025 – Aug 2025

- Engineered an end-to-end AI interview simulation system integrating Google Gemini 2.0 and Vapi AI, implementing real-time voice processing and STT pipelines for natural, interactive mock interviews
- Architected a type-safe feedback engine using AI SDK structured outputs and Zod validation
- Built a scalable full-stack architecture using Next.js 15 Server Actions and Firebase Firestore, optimizing secure data flow for role-specific question generation and protected transcript storage
- Developed a responsive UI with React 19 + Radix UI and implemented complex asynchronous state management for real-time voice visualization, transcript streaming, and chat-like interactions

### Brats and Bavaria | *Next.js, TypeScript, Supabase, Cloudinary, Stripe, Vercel*

May 2025 – June 2025

- Developed and deployed a RESTful API with Next.js App Router, enabling 1000+ photo submissions with zero downtime
- Engineered PostgreSQL schema in Supabase to support real-time payment tracking and eliminate manual reconciliation
- Integrated Stripe webhooks with signature verification, automating secure payment processing and database updates
- Architected automated approval workflows with dynamic payment link generation and transactional email notifications via Resend API

### TadPool | *Flutter, Django, AWS S3, Rekognition, Docker, EC2*

Apr 2025 – May 2025

- Refactored and modernized a 2-year-old legacy codebase, improving maintainability and scalability for production reliability
- Built end-to-end profile image upload system integrating AWS S3, IAM security, and Flutter-Django APIs
- Integrated AWS Rekognition for facial verification, strengthening authentication security and reducing fraudulent accounts
- Debugged authentication workflows by customizing Django EmailBackend and synchronizing Flutter state management
- Deployed scalable backend on EC2 using Docker Compose with comprehensive troubleshooting and monitoring