

Chloe Kwon

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github.com/chloe-ek | chloe-ek.github.io/Portfolio

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 <i>Diploma in Computer Systems Technology, BCIT</i>	Vancouver, BC <i>Jan 2024 – Present</i>
Hanyang University <i>Diploma in Music Composition</i>	Seoul, Korea <i>Jan 2014 – May 2016</i>

PROJECTS

Boats Animator(Open Source) <i>React, TypeScript, Redux, Electron, @dnd-kit, Node.js</i>	Sep 2025 – Dec 2025
<ul style="list-style-type: none">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 developmentFixed critical video export failures by implementing a temp-directory copying mechanism and correcting file-path logicEngineered a multi-frame selection system enabling batch delete/insert workflows across multiple components, significantly improving editing efficiencyImplemented an Insert Mode with synchronized state between CaptureContext and PlaybackContext, supporting precise frame capture at arbitrary positionsDeveloped an automatic take relabeling mechanism that maintains consistent naming and prevents data inconsistencies after insert/delete operations	
AI-powered interview platform <i>Next.js, Firebase, Google Gemini 2.0, Vapi AI</i>	June 2025 – Aug 2025
<ul style="list-style-type: none">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 interviewsArchitected a type-safe feedback engine using AI SDK structured outputs and Zod validationBuilt 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 storageDeveloped 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 <i>Next.js, TypeScript, Supabase, Cloudinary, Stripe, Vercel</i>	May 2025 – June 2025
<ul style="list-style-type: none">Developed and deployed a RESTful API with Next.js App Router, enabling 1000+ photo submissions with zero downtimeEngineered PostgreSQL schema in Supabase to support real-time payment tracking and eliminate manual reconciliationIntegrated Stripe webhooks with signature verification, automating secure payment processing and database updatesArchitected automated approval workflows with dynamic payment link generation and transactional email notifications via Resend API	
TadPool <i>Flutter, Django, AWS S3, Rekognition, Docker, EC2</i>	Apr 2025 – May 2025
<ul style="list-style-type: none">Refactored and modernized a 2-year-old legacy codebase, improving maintainability and scalability for production reliabilityBuilt end-to-end profile image upload system integrating AWS S3, IAM security, and Flutter-Django APIsIntegrated AWS Rekognition for facial verification, strengthening authentication security and reducing fraudulent accountsDebugged authentication workflows by customizing Django EmailBackend and synchronizing Flutter state managementDeployed scalable backend on EC2 using Docker Compose with comprehensive troubleshooting and monitoring	