

# Arthur Kan

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## Education

University of British Columbia, Major in Business and Computer Science

Class of 2027

- **Scholarship:** Outstanding International Students: \$18,000.

## Work Experience

Cybersecurity & IT Operations Intern, Allianz Group, Shanghai, China

June 2025 – Current

- **Collaborated with 3 interns** and IT/security teams to support the **nationwide deployment** of Sangfor's SASE solution, including secure access, zero trust policies, and DLP testing.
- Led configuration synchronization across **45+ core servers** during infrastructure migration, ensuring failover readiness and validating high-availability firewall setups with regional network teams in **30+ locations**.
- Structured and documented IP/subnet data for **200+ dedicated lines**, broadband, and SD-WAN routes nationwide, streamlining asset management and improving compliance reporting efficiency **by over 30%**.

## Technical Skills

- **Languages:** Java, JavaScript, TypeScript, HTML, CSS, SQL
- **Frameworks & Libraries:** React, Next.js, TailwindCSS, Prisma ORM, LangChain, Shadcn UI
- **Dev Tools & Systems:** Git, GitHub, VSCode, Vercel, AWS (S3, IAM, Amplify), PostgreSQL, Docker
- **AI & APIs:** OpenAI API (Embeddings, Chat Completion - GPT-3.5/4), Pinecone (Vector DB), Azure TTS, Microsoft Translator API, RAG Architecture

## Technical Project

DocuChat AI - Enterprise-Grade Semantic PDF Dialogue System

May 2025 – Current

- **Built PDF processing and vectorization pipeline** using pdf-parse for text extraction, TextSplitter for chunking, OpenAI embeddings for vector generation, and project-specific namespace isolation in Pinecone.
- **Achieved 40% faster page load times** through Next.js 15 server-side rendering optimization, dynamic imports, and component-level code splitting for chat interface.
- **Engineered responsive interface** with dark/light theme support, internationalization (English/Chinese), and professional component library integration using Tailwind CSS and custom design tokens.
- **Improved search response time by 50%** using project-specific namespaces in Pinecone, reducing vector search time from 800ms to 400ms for 1000+ document corpus.

LexiLearn – Personalized Full-Stack Document Management Platform

May 2025 – Current

- Designed and implemented a secure and scalable authentication system using NextAuth.js. This included **threat modeling for security vulnerabilities**, incorporating JWT-based sessions with OAuth 2.0 providers (e.g., Google/GitHub), and ensuring robust credential management with HttpOnly cookies.
- **Eliminated 90% of server load for file uploads** using AWS S3 presigned URLs for direct client-to-S3 uploads, removing server as bottleneck for multi-GB PDF processing.
- **Improved CI/CD pipeline efficiency by 45%** through optimized TypeScript compilation, parallel linting, and incremental build strategies.

## Extracurricular Activities

IT Associate, Commerce Undergraduate Society, Vancouver, Canada

June 2025 – Current

- **Improved communication and operational efficiency by managing 400+ official emails** for CUS members and affiliated clubs, supporting smooth society-wide collaboration.
- Ensured website functionality by maintaining official system, and regularly updating the CUS website with events, club hirings, and student resources, making information easily **accessible to 3900+ business students**.