

Calvin Chun-Yu Chan

Full-stack TypeScript/JavaScript engineer

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INTRO

I've spent 15+ years building software that makes life easier, from creating web and mobile apps to designing the back-end systems that power them. My years of development work have taught me to build quickly, learn from mistakes, and embrace change. Now I'm bringing that same energy to AI and machine learning, exploring how language models, speech technologies, and automation can improve user experiences and simplify complex workflows.

TECH SKILLS

Languages & Frameworks: TypeScript/JavaScript, React, Next.js, refine.js, Node, CSS, HTML

Database & Identity: PostgreSQL, MongoDB, Redis, MSSQL, Microsoft ADFS, OAuth

Infrastructure & DevOps: AWS, GCP, Docker, CircleCI, GitHub Workflow, Fastlane

UI Libraries: Material UI, Tailwind, Shadcn UI

EXPERIENCE

System Engineer - EDU.INK Limited (Hong Kong)

Jun 2019 - Present

- Led the development of a real-time collaborative counselling record database with secure information storage and permission control, replacing clients' ad-hoc Google Doc workflow.
- Implemented all major products: student information system, admission and enrolment, billing and online payment, parent-teacher communication system, and mobile app.
- Led the transition from a legacy monolithic PHP Laravel application to a client-server architecture, achieving substantial efficiency gains, faster response times, and an enhanced user experience through improved scalability and reliability.

Founding System Engineer - GUZZU Limited (Shenzhen, China)

Jun 2016 - Sep 2019

- Implemented an expat-focused e-commerce platform with a bilingual interface to help English-speaking business owners manage their businesses and serve the local market.
- Built a mobile-web event ticket sales platform, including a management backend and a barcode scanning ticket validation app, streamlining event ticket sales.

Contract System Engineer - archiparti.co (Hong Kong)

Apr 2015 - Apr 2016

- Built an information system for contractors to manage interior design projects.

Founding System Engineer - giftpass.cn (Shanghai, China)

Mar 2013 - Jun 2015

- Led the design and implementation of a digital gift voucher platform and mobile app that simplifies the management and consumption lifecycle for consumers and merchants.

UX Designer - Genesis Inc. (Japan)

May 2011 - Jul 2012

- Worked on a voice-based instant messaging app with positive user feedback and market interest in Southeast Asia.

Web Designer and Engineer - A.C.O. Inc. (Japan)

Sep 2010 - Mar 2011

- Built websites for clients using web design, rapid prototyping, and UI engineering skills.

InnateDB Software Developer - The University of British Columbia (Canada)

Mar 2007 - Jun 2010

- Designed and implemented the submission system and curator tool.
- Engineered custom interface elements for intuitive query workflows.
- Implemented pathway visualization and report generation features.

VOLUNTEER

Volunteer System Engineer - Familogue Education Society / familogue.ca (Canada)


Sep 2024 - Present

- Built custom e-store, member management, and program enrolment systems to improve admin efficiency with limited human resources.
- Automated e-transfer handling for payment confirmation utilizing email webhook, reducing manual processing time and human error in transaction handling.
- Integrated 3rd-party datasources such as Zoho Books, Vancity Business, and Square Payment, improving data visibility.

EDUCATION

University of British Columbia — B.Sc., Computer Science

Sep 2000 - May 2003

 For more information about me and my recent activities, please visit my personal site at calvincchan.com