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<https://github.com/calvincchan>

Summary

- Years of experience building database driven backend servers and frontend apps (mobile & web) for e-commerce solutions and school administration products.
- Led a complete rewrite of a first generation monolith PHP app into NodeJS/Mongo based, modularize api servers and web/mobile client apps. The end products were faster and more scalable, easier to maintain, and use about 1/3 the computing resources of the previous generation.

Experience



Full Stack Developer

EDU.INK

Jun 2018 - Present (4 years 8 months)

- Redesign and build a new generation of products from scratch based on clients' feedback and feature requests. The products includes student information system, billing, application and enrolment, online school payment, library and e-library, parent/school CMS, live chat, school bus check-in/check-out, client mobile apps.
- Design backend systems, admin console and front-end user applications.
- Backend: NodeJS, Mongo, Redis, Typescript, Docker. Fastify for the API framework. OpenAPI for documentation and integrated API input/output validation and serialization. SocketIO for chat. Jest for testing.
- 3rd party integrations: Stripe, Mailgun, OneSignal, Active Directory, S3, Google Cloud Storage.
- Frontend: VueJS, ReactJS, React Native, Typescript.
- Continuous deployment: CircleCI, BitBucket Pipeline.



Co-founder, Full Stack Developer

GUZZU

Jun 2017 - Sep 2019 (2 years 4 months)

- Implemented e-commerce platform targeting small expat merchants in China.
- Developed products including inventory management system, shopping apps for web/mobile/WeChat, online payment, storefront customization, e-ticket issuing and consumption.
- Backend: NodeJS, Mongo, Redis
- Frontend: AngularJS



Co-Founder, Full Stack Developer

Giftpass 礼物通

Mar 2013 - Jun 2017 (4 years 4 months)

- Designed and implemented digital gift voucher issuing and consuming platform as a China Accelerator Startup Project
- Backend tech: NodeJS, Mongo

- Frontend: AngularJS



UX Designer

Genesix Inc.

May 2011 - Jul 2012 (1 year 3 months)

- User experience, interface and visual design for iOS app for Japanese market.



Web Designer and Engineer

A.C.O. Inc. | Design consulting firm

Sep 2010 - Mar 2011 (7 months)

- Web design, rapid prototyping and UI engineering for international clients. Tech: Fireworks, JQuery.
- Created Facebook Page and social application for global marketing initiatives.



Software Developer for InnateDB.ca

The University of British Columbia

Mar 2007 - Jun 2010 (3 years 4 months)

- Design and implement international innate-immunology experiment search engine and management systems.
- Built data visualization and report generation.
- Created UI for management systems.



Software Engineer

Active Logic Inc

Jun 2006 - Feb 2007 (9 months)

- Developed customer management system.



Software Engineer and System Administrator

ehosting.ca

May 2003 - Aug 2005 (2 years 4 months)

- In-house customer management software development
- Hosting products and services development
- Linux server administration
- MySQL Database management

Education



The University of British Columbia

B.Sc., Computer Science

2000 - 2003

Skills

Software Engineering • User Interface Design • Mongoose ODM • TypeScript • React.js • Node.js •
Redis • Docker Products • Adobe Illustrator • Sketch App