

Zefei Xuan

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EXPERIENCE

Cigux Inc., Los Angeles (2012.3 - present)

Co-founder & Lead programmer

- * Built and managed company's development team.
- * Cigux MSign (msign.cigux.com): a tablet kiosk app to track and report attendance (signatures, timestamps and geolocations). Backend uses Ruby, and mediates data between vendors and mobile clients. All data are journaled and synced to enable reliable offline operations on Android tablets.
- * Cigux Forms (forms.cigux.com): a mobile forms builder and submissions manager. Form builder and built forms are rendered responsively in html5. Backend uses Ruby and MongoDB.

MCT Technology, Culver City (2011.2 - 2012.2)

Software engineer

- * Devised and conducted a large user testing plan to complete company's core technology - welfare claim calculation software, coded (in C#) and greatly improved its accuracy.
- * Developed a small CRM system for welfare agencies to track waiting applicants.

Remonit (2014)

Personal project, open source

- * A real time remote monitoring app, available at remonit.zef.io, open sourced on GitHub.
- * Used Angularjs to build the single-page frontend, including an intuitive dashboard designer.
- * Used Meteor for backend and data synchronization, PouchDB for local data storage.

SimplyContrast.com (2010 - 2011)

Personal project

- * Designed and developed an online raw image processing app using ActionScript, C++ and shaders.
- * App utilizes state-of-the-art tone-mapping techniques to compress wide dynamic ranges of raw images. Implemented a unique tone-mapping algorithm from my research in image processing.
- * A native, cross-platform server was developed in C++ to mitigate heavy image processing from browser.

PicMagick.com (2008 - 2009)

Personal project, open source

- * Designed and developed an online image editor using ActionScript.
- * Most regular image editing algorithms are offered: cropping, rotation, levels, curves, red-eye, white balance, and some common filters.
- * Open sourced on GitHub.

Jinshi Tech, Ltd., Shanghai, China (2009)

IT Advisor

- * Led a team of four and developed company's E-commerce website (now closed).
- * System was coded in ASP MVC and provides all regular E-commerce functions.

Sino Sustainable Energy Association (NGO), London, U.K. (2006 - 2008)

Volunteer

* Developed organization's content management system in Ruby, used as main website.

* CMS functions include blog publishing, bulletin board and a feed reader.

EDUCATION

McMaster University, Canada (2005 - 2009)

Bachelor of Science in Mathematics

Cornell University, U.S. (2009 - 2010)

Computer Science