

RENZHI LI

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Experience

2017 - Present

Beijing, China

Microsoft, Internship

- Improve, *ideohint*, targeting to produce better hints, which is crucial for ideographic typography on screen.
- Integrate *ideohint* with Visual TrueType, the industrial-standard hinter in type design industry.
- Investigate and build prototypes about the font, which can be a replacement to Microsoft YaHei, matching the quality requirements of a modern on-screen font, using the latest typography technologies.

Late 2016

Hefei, China (Remote)

FounderType, Technology Collaborator

- Short-term project for Founder.
- Mainly focus on improving hinting of their ideographic fonts.

Education

2014 - Present

Hefei, China

University of Science and Technology of China

- Candidate Master in Chemistry Informatics.
- USTC Merit Scholarship Recipient.

2010 - 2014

Hefei, China

University of Science and Technology of China

- Bachelor of Science degree in Chemistry.

Projects

2014 - Present

GitHub.com/caryll/ideohint; JavaScript

ideohint, an optimized hint generator for ideographs

- Produces high-quality TrueType gridfits optimized for CJK ideographs.
- Performs stroke simplification for complex characters.
- Eliminates labor intensive manual works in hinting a CJK font.
- AI-driven algorithm to provide legibility at small sizes.

2016 - Present

GitHub.com/caryll/otfcc; C

otfcc, the OpenType reader and builder

- An OpenType parser and builder written in C.
- Ability to dump OpenType fonts to JSON representation & do the reverse.
- 40x faster than ttx/fonttool.

2015 - Present

GitHub.com/be5invis/losevka; JavaScript

losevka, a programming font built from a program.

- *losevka* is a slender monospace typeface designed for programmers.
- Written in code itself: Generated by a program which build the glyphs.
- Latin, Greek and Cyrillic, with Powerline and ligature support.
- Ability to customize font parameters or glyph variants.

Skills

Digital Typography

- TrueType and OpenType
- Font file details
- OpenType layouting
- Web font technologies
- CJK type techniques

Type Design

- Latin/Greek glyph design
- Programmatic font generation
- Automatized hinting
- Type design tools

Web Development

- HTML5
- CSS
- JavaScript
- Node.js
- Vue.js

Functional Programming

- Idris
- Type theory
- Programming language theory

Software Development

- C
- C#
- Julia

Languages

- Chinese (native)
- English (fluent)
- Japanese (known)

Conference Lectures

- *On Harmony*
JSConfCN 2013, December 2013, Beijing
- *Patrisika: Theoretical & Practical Code Generation*
JSConfCN 2014, June 2014, Hangzhou