

Pinglei Guo

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WORK EXPERIENCE

JANUARY 2015 – MARCH 2015

GitCafe, Shanghai, China

Software Engineer (Ruby on Rails)

Participate in migrating to Ceph. Optimize ruby mark-down parser. Fix encoding problem in rugged.

SEPTEMBER 2013 – JANUARY 2015

Dongyue Web Studio, Shanghai, China

Full stack web developer

Build RESTful API and microservice using morden PHP, NodeJS frameworks like Laravel, Express. Develop responsive user interface using Bootstrap and AngularJS. Build internal tools for continuous integration, monitoring and alert. Build user recommendation system based on PredictionIO.

RESEARCH EXPERIENCE

MARCH 2015 – NOVEMBER 2015

Shanghai Jiao Tong University, China

Research Assistant

Participate in building a distributed system monitoring and prediction prototype. Build metrics visualizing dashboard, support real time update and custom plugin. A plain text protocol for data transport and collector control, implemented using Netty. Coauthored the paper *CPU load Prediction based on a multidimensional spatial voting model*.

JANUARY 2002 – JUNE 2004

Victoria University, Australia

Research Assistant

Participate in estimating Australian Football League Sports men's commercial value. Build web crawler embedded into ASP.NET web application. Using text mining to combine evaluation from periodical publications and social media with athlete's performance to generate rank and estimated value.

PROJECT EXPERIENCE

MARCH 2015 – JUNE 2015

Project Leader

Scala linter

Build Scala compiler plugin to check dead code. Contributed to Scala official documentation.

SEPTEMBER 2013 – JANUARY 2014

Project Leader

Real time route control based on image processing

Use OpenCV to extract car position from real time image. Generate and optimize route. Control the car using single chip machine. A standalone GUI application using MFC for configuration and real time monitor.

JANUARY 2002 – JUNE 2004

TEMA s.r.l., Travagliato

PLC Omron development

Development and testing of software for automatic and semiautomatic machines for ribbon winding on spools and rolls (safety belts, hook-and-loop tapes, elastic ribbon and bindings). Designing of electrical schematics on 2D cad and drafting of user manuals.

EDUCATION

2016 – PRESENT

MS. Computer Science

University of California Santa Cruz

2012 – 2016

BS. Material Science

Shanghai Jiao Tong University, China

2013 – 2016

BA. Animation

Shanghai Jiao Tong University, China

OPEN SOURCE PROJECTS

2013

silverstripe (silverstripe.entidi.com)

Themes and extensions for SilverStripe

2012

ntdisp (ntdisp.entidi.com)

Embedded devices programmer

2007

tip (tip.entidi.com)

PHP framework based on PEAR

2006

adg (adg.entidi.com)

Automatic drawing generation

COMMUNICATION SKILLS

CHINESE Native speaker

ENGLISH Oral: fair – Written: good

SOFTWARE SKILLS

GOOD LEVEL	C, PHP, HTML, CSS, autotools, git, gcc, GTK+/GObject, shell, Linux, G-Code, Lua
INTERMEDIATE	FreeBSD, MS-DOS, L ^A T _E X, MySQL, VBA, cuBasic, ladder, pascal, LabVIEW
BASIC LEVEL	Windows, OpenIndiana, subversion, Postgres, Erlang, Forth