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Pinglei Guo

WORK EXPERIENCE

January 2015 – March 2015
Software Engineer, GitCafe, Shanghai, China

Migrate filesystem to Ceph. Optimize ruby markdown parser. Fix encoding problem in rugged.

September 2013 – January 2015
Full stack web developer, Dongyue Web Studio, Shanghai, China

Build RESTful API and microservice using modern 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
Research Assistant, Shanghai Jiao Tong University, China

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

July 2015 – September 2015
Research Assistant, Victoria University, Australia

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

PROJECT EXPERIENCE

March 2015 – June 2015
Scala linter *Project leader*

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

September 2013 – January 2014
Real time route control *Project leader*

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.

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*

SOFTWARE SKILLS

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