

## Biguo Xin - Full stack engineer



I'm a self-motivated man who loves very much **about** programming.

I do always learn **before** I invent so **that my** colleagues don't have **to** deal **with** "genius" code.

Programming skills are like wands **for** wizards, they can help build many amazing things **in** a fantastic way.

But unlike magic, programming **is about** simplicity, readability.

And **that's** what I do, build awesome(hopefully) things **with** simple readable code.

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## Education

### Heilongjiang University Math Bachelor 2010-2015

## Experiences

1. Frontend engineer in HangbanGuanjia for 16 months.

- A single page web application based on Mithril framework

Including routers, **state** management, session restore, complicated user-interactive components.

- Maintenance of the company's Gitlab and Gitlab CIs

Including docker related problems **debug**, Gitlab upgrading, moving issues.

- Express & Node.js based backend for rendering pages and API rerouting

Including request tracing, request caching, javascript and CSS packing.

Supporting dynamic **module** loading from the browser, typescript transpile.

## 2. Backend engineer in YueRanXinDong 7 months ago till now.

- Express & Node.js based API server for Neon, Meetstar, and other Apps

Other than above, there **is** long **async** flow managing, composition **with** golang, python.

Interactive **with** DynamoDB **with** node.

Deploying **with** **lambda**, ELB, **and** containers.

- Gin & Golang based API server for a Tinder-like App

API **routing** with Gin.

Interactive with Postgres **and** DynamoDB, query **and** calculate GEO information with PostGIS.

Building **and** delivering golang applications automatically with Jenkins.

- Maintenance of AWS dynamoDB, RDS, Lambda, EC2, Kenisis etc.

## 3. Research Engineer in Big data institution of Wuhan University till now

- Neo4j, gstore, MySQL based billion level document analysis and visualize system

Using Rust as **backend and** all the graph algorithms, wasm, **and** zoomcharts for frontend

- CNN based image classification

Mainly **just** stack convolution layers **and** pooling layers.

Solves **brain** tumor **diagnosis** which is **just** a **binary** classification problem.

Tring to detect tumor with YOLO, still working.

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## Part-time projects

- [dynamo.cli \(https://github.com/FrontMage/dynamo.cli\)](https://github.com/FrontMage/dynamo.cli) query AWS dynamoDB with SQL in a prompt

Analysis **and** convert SQL to DynamoDB APIs.

**Multiple** query task **and** prompt integration with goroutines.

- [siteWarden \(https://github.com/FrontMage/siteWarden\)](https://github.com/FrontMage/siteWarden) monitor website changes with Chrome puppeteer and image diff algorithm (This one is currently deleted because there is a leak of password)

Logging **in** websites with Chrome puppeteer.

Sending an email with **node-mailer**.

- [NSFW image rating \(http://120.78.173.99:4000/tryout\)](http://120.78.173.99:4000/tryout) a tensorflow and Yahoo's open-nsfw based nudity detection

Gather training **set with** crawlers.

Building **model and** training **with** Tensorflow.

Serving **as HTTP API with** flask **and** gunicorn.

## Skills

- HTML/CSS/SCSS Layout and styling pack

**Read and write** HTML pages, CSS frameworks, solve issues **with** different browsers.

- Javascript in browsers

Working with **built-in javascript** API, MVC frameworks like React, Vue, Mithril etc.

Knows about web assembly, **asm.js**. Knows how to optimize **javascript in browsers**.

- Javascript in Node.js(Quite different)

Working with Express, KOA, **and** other HTTP **routing** frameworks.

Knows stream programming **in** node, async flow control, **and** event loops.

- Golang

Working **with** Gin, Beego **and** other **HTTP** routing frameworks.

Working **with** tui-**go**, **go-prompt and** other **go** command line application frameworks.

Knows internals **of** slice, goroutine, channel, **and** interface.

Knows how **to** debug goroutine leaks, channel deadlocks.

Knows how **to test**, profile, **benchmark go** programs.

Knows how **to** interact **with databases both SQL and NoSQL with go**.

- Rust

**Graph algo**

- Python

Tensorflow & keras & flask

- Reason

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**In case you wonder**

I'm 26.