

Bai Yi

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SUMMARY

Full Stack Software Engineering with 2+ years of experience in backend, infrastructure, and frontend side. 3 years of network research experience in Tsinghua University gives me advanced understand in networking, which helps me design and troubleshoot projects better. I'm curious about novel technologies and techniques.

CAREER

Software Engineer in teamLab Inc., Tokyo

Nov 2016 – Current

- In charge of conceiving new technologies, software design, implement, review, test, deploy and maintenance in projects.
- Experienced with SpringBoot, Play framework, React.js, Vue.js frameworks.
- Designed a package for delivering push services (email, push notification and SMS) and collecting user behaviors based on recommendation results in teamLab.
- Built a distributed infrastructure with over 20 servers with Docker in AWS as leader of team. Servers are running with multiple roles (Schedulers, APIs and worker nodes). Both API and batch service could easily be scaled out to meet the requirement of customers. Currently the platform is reaching 3 million users per day with a peak speed of 3000 request/sec.
- Designed a selector expression that could be used to easily alter scheduling policies and segregate customers' resources dynamically.
- Reduced the disc and memory usage to under 10% by implemented a file reader to read compressed file under compressed state.
- Accelerated Facebook-like timeline, by caching events generated in Redis, sorted by time.
- Extracted photo content and geographical info with Google Vision API and EXIF information to perform rich-content search by ElasticSearch.

Intern Software Engineer, in Microsoft ASG, Beijing

Jul 2015 – Oct 2015

- Worked as a developer in Office 365 platform, my group was responsible for add-ons, which exposes a JavaScript interface that other developers could interact with the online.

SIDE PROJECT

Rewpa (Reducer with Path): Developed a library for Redux after finding that writing primitive Redux is tedious and hard to be reused. It enables users to write fewer actions and reducers codes, and enables a Json-path style for composing multiple reducers easily, so reducers could be reused across projects easily.

Sheet-based Markup Language: Developed a tool that turns Google Sheet into a markup language, useful in verifying prototype and collaboration.

EDUCATION

Master of Engineering, Tsinghua University, Beijing

Sep 2013 – Jun 2016

Research Fields: IPv4/IPv6 transition in SDN and Cloud Computing

Researching Results published as [conference paper](#), [IETF draft](#), and [oral presentation](#) in OpenStack summit.

Bachelor of Engineering, Tsinghua University, Beijing

Sep 2009 – Jun 2013

SKILLS

Programming Languages: **Java, Python, JavaScript, Shell Script**

Frameworks/Tools: **Docker, Chef, Jenkins, CircleCI, Zabbix; AWS, GCP, OpenStack; Nginx, MySQL, Redis, ElasticSearch, Cassandra; ReactJS, Redux, Vue.js; Git**

Natural Languages: **English** (business level), **Japanese** (JLPT N1), **Chinese** (native)