Jacob Ming Xing Runyan

Software Engineer

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Experience

2018–Present **Software Engineer**, *Egnyte*, Mountain View, CA, *Full-time*

- **API Caching**: Implemented Nginx caching on metadata of large folder listings, reducing X% load on a heavily loaded central Memcache cluster. Identified the noisy internal caller, request patterns, and provided a solution tailored to fix the problem case, working with multi national teams to test, scale, and maintain the solution.
- **Service Design/Deployment**: Leveraged Google Cloud Storage (GCP) to store alternate file streams from Microsoft (MS) products, a component of our coauthoring solution. Contributed to the rapid adoption of the solution, which became a leader in several internal calls, and noted value add for marketing. In an organization actively switching to microservices, was one leading project to deploy as a standalone new service. Documented steps and pitfalls for those following.
- **Compliance**: Contributed to multiple teams' efforts to ensure CMMC compliance for securing the usage of GCP resources. Supported the BigTable client conversion to Implicit Authentication, aligning with compliance standards. Use of Semgrep tooling to manage, fix, and report security alerts.
- **Work with Legacy Code**: One of two backend engineers providing internal support for the unification of the Collaborate and Secure & Govern projects under the "Platform" rebranding. Contributed to the unification of the internal user management service, streamlining processes across projects.
- **Support**: Triage of incidents, and support/feature requests for monitored services. Experience using logging (Kibana) and monitoring (OpenTSDB/Prometheus/Grafana) to debug issues.

Education

2015–2018 **Bachelor of Science, Computer Science**, *University of California, Santa Cruz*
Graduated ahead of schedule in 3 years from the Baskin School of Engineering. Relevant coursework: Algorithms, Data Structures, Databases, Operating Systems, Artificial Intelligence.

Skills

Java 5+ years developing Spring/Spring Boot projects in Maven.

Python 5+ years use for writing tests, as a scripting language, and for standalone projects.

Cloud Google Cloud Platform, some AWS.

Machine Learning/AI Basic knowledge of perceptron/NN architecture, some experience with Tensorflow/PyTorch. Proficient using GenAI in personal/professional work (ComfyUI, LMStudio, etc)

Misc Other languages include C/C++/Lua. Experience with a few SQL/NoSQL types.

Projects

Web Development **Frontend:** Web development for a variety of projects, in a variety of frameworks including React, Docusaurus, Flask, and plain old html/css/js.

Systems & Hardware **Homelabbing**: Multiple iterations of a personal homelab (see: r/homelab), used for remote computation, video rendering jobs, and hosting personal projects/websites. Experience with DNS settings, storage solutions (ZFS RAIDz1) and Traefik/Nginx load balancing.