

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 for large folder listings that weighed on a central Memcache cluster, reducing over 10% load. Identified noisy internal callers, request patterns, and provided a solution 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) and Firestore (FS) to store alternate file streams from Microsoft (MS) products, a component of our coauthoring solution. Researched and made design decision between native and Datastore version of FS. Contributed to 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 achieve CMMC compliance by securing the usage of GCP cloud resources. Moved several large Bigtable clients to using Workload Identity. Communicated with code owners, ensured correctness, and facilitated production rollout.
- **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 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.
ML/AI	ML Side Projects : Tinkering with Tensorflow/Pytorch for small classifier projects. Building ComfyUI pipelines to generate web resources for websites and test models/loras, and building prompts/context in java and python.