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Take jobs from the **Provean** queue, submit them to the cluster, and monitor their progress.

HTTP(s) requests:

- submit new jobs
- check job status
- etc...





Python 3.5 asyncio + aiohttp event loop

Take jobs from the **results** queue, and send a "Job Complete" email *only if* all mutation jobs are finished.

Take jobs from the homology modelling queue, submit them to the cluster, and monitor their progress.

Take jobs from the mutation queue, submit them to the cluster only if the provean and homology model jobs are finished, and monitor their progress.