Fei-Yang Jen

4A Computer Science
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SUMMARY OF QUALIFICATIONS

- **Python (Flask, SQLAlchemy, GoogleData Client, Mock), Ruby on Rails (Redmine):**
  - Feature implementations, APIs, performance optimizations and bug fixes
  - A personal website powered by Flask and hosted on AWS
- **C++/C:**
  - An OS with file system, memory management, threads and scheduling
  - A program with concurrency and synchronization using Administrator model
- **Also worked with:** Bash, Docker, HTML, CSS, Bootstrap, JavaScript, Perl
- **Database:** Redis, SQLite, MySQL, PostgreSQL
- **Server:** Apache, Nginx, DNS, HAproxy, Jenkins CI Server, Azkaban Server
- **Cloud:** AWS (EC2, S3, Route 53, EMR), GCE, RackSpace, CloudStack, OpenStack
- **Tools:** Git, Sublime Text 2, Vim, Linux (Ubuntu), Windows, Macintosh

WORK EXPERIENCE

- **Cloud Engineering Intern** at Inkling, San Francisco, CA, USA, 05/2014 – 08/2014
  - Implemented features for backend services of Inkling Habitat with Python and Ruby
  - Refactored and redesigned new workflows for publishing books to Inkling
  - Participated in fixing bugs and optimizing HTTP slow requests in the code base
- **Web Ops Engineering Intern** at Inkling, San Francisco, CA, USA, 09/2013 – 12/2013
  - Developed and fixed internal workflows and tools with Python and JavaScript
  - Participated in daily production deployments and maintenance of Cloud environments
  - Implemented a job scheduler with open-source Azkaban Server and AWS EMR
- **Cloud Computing Software Developer** at OICR, Toronto, ON, Canada, 01/2013 – 04/2013
  - Improved software Installation time by 50% to 80% with Bash
  - Built applications to deploy scalable SGE Cluster with NFS on GCE with Perl
  - Created generic application to launch scalable environments on AWS
- **Cloud Operation Analyst** at Awareness Inc., Burlington, ON, Canada, 05/2012 – 08/12
  - Implemented a private Cloud with CloudStack and LDAP to provide IaaS locally
  - Deployed scalable Cloud environment with Alarm Cloak, SQS, S3 and Load-Balance on AWS
  - Performed benchmarking on database and disk I/O on Amazon and RackSpace
- **Project Engineering Assistant** at NCHC, Hsinchu Science Park, Taiwan, 09/2011 – 12/2011
  - Configured DNS with geo-location feature to distribute client connections
  - Implemented load-balancer using HAproxy, Dstat and third-party libraries
  - Co-Developed Cloud storage service nation-wide

PROJECTS

- **Personal Website**
  - A personal website containing information about myself. Many proofs of concept are done in this playground
  - Hosted on AWS and built with Python, Flask framework, SQLAlchemy, Jinja2 Template, Docker, Redis, SQLite, Bootstrap, HTML, CSS and Nginx

- **YouTube Playlist Curl**
  - An application that will curl a YouTube playlist and download individual songs by posting requests to youtube-mp3.org
  - Built with Python and Google YouTube Data API (V3)

- **Eat all Candies (Cut the Rope version)**
  - An interactive game to collect candies and dodge obstacles dropping from the sky by using arrow keyboards
  - Built with Python and Pygame engine

EDUCATION

- Candidate for Bachelor of Computer Science
  Honours Computer Science, University of Waterloo, ON, Canada, September 2010 - present