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Profile Summary

Passionate, highly competent software engineer with a wealth of experience developing scalable and robust systems. I love my work and strive to deliver elegantly crafted software.

Skills Summary

- Programming languages: Python, Ruby, Golang, PHP, C, Erlang/Elixir, Javascript.
- Databases: PostgreSQL, MySQL, Oracle, MongoDB.
- Queueing technologies: RabbitMQ, ZeroMQ.
- Caching: Memcached, Redis.
- Operating Systems: Linux(RedHat, CentOS, Debian), Mac OSX.
- Version control: Git, Mercurial.

Work Experience

Software Engineer, Duma Works, Nov 2015 - date

Leading development of the Duma platform, a recruitment platform built to offer smart data driven matching of candidates to job requirements.

- Consulted by the CEO on direction of the platform and key technical decisions.
- Aligning development of the platform to business needs - spearheading implementation of the product roadmap to ensure most important components of the platform are prioritized and delivered during development.

Core engine team

- Working on the algorithms that ensure the most qualified candidates are matched to jobs.
- Working on key features to ensure as much of the recruiting workflow is automated so that the business can scale as clients increase.
- Developing features to learn from past recruitment data to improve the matching and shorten turnaround time.
- Data mining of candidate CVs to improve quality of matching.
- Building Rest APIs that are the backbone of a heavily Single Page Frontend that's utilized on a daily basis by recruiters at Duma.

Responsible for the entire technical infrastructure(Cloud Servers, 3rd party integrations, repositories) that the platform runs on.

Tech used: Python, Django, PostgreSQL, Javascript, jQuery, Angular JS, RabbitMQ, Celery, Linux.

Major Achievements

- ★ Entirely handled server migration to a different cloud provider; Python upgrade - 30% drop in infrastructure cost and 40% drop in page load time. Used ansible to automate server provisioning.
- ★ Designed and implemented major changes to system architecture enabling evolution from an internal tool to Software as a Service.
- ★ Designed Data architecture and set up infrastructure for CV parsing.
- ★ Implemented candidate test auto-generation and auto-grading, resulting in faster processing of applications.

Software Engineer, Freelance, Oct 2014 - Nov 2015

Developed various projects based on contractual and remote-based work.

Projects Undertaken

Vending Systems

Core developer of an agent network management/payments platform for vending prepaid electricity tokens, paying postpaid electricity bills and vending airtime. The platform processes a large number of requests from a network of hundreds of merchants/vendors(using GSM POS terminals, J2ME capable phones, Smart Phones & desktops), 3rd party API clients. Platform runs vendiplus.com.

Tech: Python, Django, Twisted, Redis, PostgreSQL

Developed highly concurrent backends in Golang, using custom protocols that run over TCP, to handle asynchronous requests to 3rd party systems by the main vending platform.

Kesh, Mobile money transfer/agency banking

Development on an agency & mobile banking platform in collaboration with ImpalaPay Ltd(www.impalapay.com) and Innovectives LLC (www.innovectives.com). The platform offers peer to peer money transfer, bill payment, airtime purchase. Built on Python, Twisted and Postgres.

Off-grid electricity management

Developed a pay-as-you-go off-grid electricity billing platform for a client. The platform enables users to obtain custom designed rechargeable power packs on lease and renew energy credits by purchasing units through redeemable vouchers and/or mobile money payments. Developed in Python/Django with various async network servers developed using Twisted & Python asyncore.

Software Engineer, Radix Consulting Ltd, June 2013 - Oct 2014

Started as an intern and proceeded to full time work.

Developed USSD/SMS/Web Systems and APIs for Airtel Africa. Systems entirely built in Python/ Twisted using an asynchronous event driven architecture with extensive use of message passing(using RabbitMQ) and caching(using memcached) for scalability.

Extended Kannel, an open source SMS gateway, adding AES config encryption. Saw it deployed to various African countries where Airtel is operational. Work done in C.

Other projects, 2011 - 2014

Development work on birthdayalarms.com. Backend development in Python/Tornado.

Custom development work on Redmine(an open source project management tool) for hyperoptic.com. Work done in Ruby.

Developed a backend restful api for a hospital incident reporting mobile app. Work done in Ruby with Ruby on Rails.

Developed a bulk SMS application, using PHP with Kannel as the SMS gateway.

Developed a School Management System(done in PHP) - consisted of exam/grading management, accounting, SMS(could send out bulk sms and respond to queries with certain keywords). Sold to 4 schools.

Education

Bsc Software Engineering, Kenyatta University, September 2010 – April 2014

References

Available on request.