Nelson Chen *- Software Engineer with an interest in rapid prototyping, testing, and productionization*

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Experience

Mobivity Inc. (Acquired SmartReceipt Inc.) | San Diego, CA

Software Engineer
December 2012 - ...
Advised upon real-world development and systems administration practices. Contributed to whole infrastructure refactoring with Chef and Salt Stack. Contributed and maintained organization's main product offering's parsers and internals. Developed new rapid `kitchen`, `vagrant`, and automated testing workflow for Chef infrastructure development and application development. Ported and applied same "clean room sandbox" workflow to organization's legacy Rails application. Investigated feasibility and experimented with full end-to-end Integration testing on Company's client-end deployment. Produced customer map with static site generators, Google Map APIs and custom styled maps. Supported and tutored fellow team members on AWS usage security, and best practices. Migrated main customer-site-deployed software to version control best practices. Supported and maintained printer stream interception software. Observed business, administration, financial, and management practices.

Because of Hope (Nonprofit 501(c)3) | Santa Barbara, CA

Web Engineer
2012 - ...
Maintained existing website and VPS. Drafted and implemented plans to help organization reduce hosting costs, increase website performance, reduce maintenance, and provide effortless scaling using Amazon Web Services. Reimplemented website using static site generators and modern front-end frameworks. Continued maintainence and update of content. Satisfying "Help poor children in Uganda" directive in `vim`.

UCSB Associated Students | Santa Barbara, CA

Technical Committee Vice Chair
2009 - 2012
Managed technical matters of committee activities including public website and internal software and hardware. Designed, setup, configure, and maintained a VMWare, Linux, Windows, and pfSense-based network, accompanying virtual machines for file sharing and network traffic management, and devised and improved upon workarounds for problematic network issues for LAN Parties for 150+ attendees for every quarter since Fall of 2009 until December 2012.

UCSB Housing and Residential | Santa Barbara, CA

Network Consultant
2009 - 2012
Helped residents in UCSB Residential Housing get their devices online with ResNet. Developed tools to streamline configuration of these devices for printing to shared printers and to automatically configure the network. Helped physically install switches and hardware in dozens of locations on campus. Maintained internal documentation with regards to networking and procedures maintained. Assisted users one-on-one in troubleshooting any connectivity issues both simple and complex. Produced automated graphical setup tools for all major platforms to assist in configuration of 10,000 user systems with Printing and Wi-Fi Configuration.

Selected Personal Projects and Contributions

UC Santa Barbara Subreddit Design | Santa Barbara, CA

Creator and Maintainer
May 2012 - ...
Produced most advanced Python, Ruby, and SASS framework and deployment tool for developing preprocessed stylesheets and templated markdown for section of website subscribed to by 3,000 users. Said framework is easy to deploy with minimal configuration and utilizes accepted standard Python and Ruby support tools. Framework is easy to extend should more advanced functionality be required (e.g. technical rivalries with other student bodies at other higher-learning institutions). Produced all design and artwork from scratch and released under CC-BY-SA.

Education

2008 - 2012
Bachelor of Science – Computer Science at UCSB.

Interests, Skills, and Hobbies

- **Languages** – Python, Ruby, Scala, Go, Rust, and Java
- **Operating Systems and Platforms**
  - Ubuntu – Debian Packaging and Administration
  - CoreOS – Containerization and Docker.
  - Mac OS X – Homebrew Recipes and `launchd`
  - Android – Native Java development
  - Development and Operations – Test-driven Chef, Salt Stack, Packer
  - On-demand Compute and Storage – Amazon Web Services, Rackspace Cloud, and DigitalOcean
  - Heroku – Ruby on Rails, Play Framework 2, and automated scripts
- **Computer Networking** – `iptables`, `pf`, and pfSense
- **IDE** – IntelliJ IDEA and friends, Vim, Unix, Atom
- **Databases** – PostgreSQL and SQLite
- **Web Development** – HTML5, SCSS, LESS, nanoc, Ruby on Rails, Play Framework 2, JavaScript, jQuery, React, Bootstrap, REST, and JSON
- **Project Management** – Trello, HipChat, JIRA, Confluence, Slack
- **Misc. Skills** – AMPQ, Logstash, OpenStreetMap, AutoHotKey, Amazon Mechanical Turk, Illustrator, and LaTeX