Christian Andrei B. Estioco

BS Computer Science, University of the Philippines-Diliman
Email: chadestioco@gmail.com · Portfolio: github.com/skytreader

> An online and up-to-date version of this document can be found at
> `https://github.com/skytreader/chad-cv`. This version was generated at 2018-08-27.

Work Experience

- **DevOps/Site Reliability Engineer, Kalibrr (March 2017 - Present).** Improved mean response time of API endpoints some from ∼8000 milliseconds to ∼900 milliseconds by reducing time spent in memory allocation. Reduced the build run time of backend unit tests by 42% by reconfiguring tests to run in parallel. Helped in the migration of our entire platform from Linode to GCP/GKE.

  Tech used: Ansible, Angular 1, TypeScript, PostgreSQL, Redis, Elasticsearch, SASS, Bootstrap, Python, Pyramid, Celery, Docker, Kubernetes.

- **Full Stack Web Developer, Kalibrr (February 2015 - March 2017).** Ensured usability of core features for mobile users, accounting for 62% of Kalibrr's traffic at the time. Worked closely with Marketing and Design to strengthen acquisition through organic channels: acquired ∼100K users in three months with 95% of acquisitions organic. Built features that helped ensure steady user growth despite seasonal lulls.

  Tech used: Ansible, Angular 1, TypeScript, PostgreSQL, Redis, Elasticsearch, SASS, Bootstrap, Python, Pyramid, Celery.

- **Research and Development Engineer, Chikka Philippines Inc. (September 2012 - November 2014).** Optimized Chikka's main infrastructure to ensure performance under heavy load. In one instance, I restructured a legacy component from ∼700k transactions over 9 hours to ∼1.5m transactions over 9 hours by refactoring database bottlenecks to use Redis. Also lead the development of an SMPP gateway, slated for use in more than two-thirds of Chikka's operations at the time.

  Tech used: Java, Redis, MySQL, Python, Gevent, Java Servlets, ZeroMQ, SMPP, jQuery, Tornado, CentOS, RHEL, Ubuntu.

- **Summer Intern, Azeus Systems Philippines Ltd. (April 2011 - May 2011).** Worked on a location-based social networking app for Android based on Google Maps with networking functionalities built on jWeb-Socket. Designed UI-mockups for the module assigned to my team. Implemented a messaging-like system as well as the map-based features of our module.

  Tech used: Java, Android, Servlets, JSP, Google Maps, jWebSocket, Oracle.

Research

- **Undergraduate researcher, Computer Vision and Machine Intelligence Group (CVMIG), UP-Diliman (June 2011 - April 2012).** We created a system that recognizes Porites from images taken underwater using a search-based-on-texture approach, with a windowed Gabor Filter as an important component of the comparison. We managed an accuracy of 75-77% on average but we achieved up to 80% on a smaller window size. On top of this, I worked on possible alternate approaches, one of which lead us to our final algorithm.

  This is the first part of a multi-phase project for the Automated Rapid Reef Assessment System (ARRAS) which concluded in 2015.

  Tech used: Java, JavaCV, Swing, Python, OpenCV, Octave.

Hacks and Side-Projects

- **PyGame Objects.** (`https://github.com/skytreader/PyGame-Objects`) An experimental framework for building games with PyGame. The design philosophy behind the framework is to make it feel like writing a web MVC app.

  Tech used: Python, PyGame.

- **Alexandria.** (`https://github.com/skytreader/alexandria`) A simple web app I built to catalog the books in my personal library. The goal is to get a relationship graph among the books I read where relationships are defined by the people who worked on the book.

  Tech used: Python, Flask, MySQL, jQuery.

- **Museician.** (`https://github.com/skytreader/museician`) A music player for Android that plays songs after a specified delay, allowing users to "prepare" to play along with the song. Google Play link: `https://goo.gl/KZySTx`.

  Tech used: Java, Android.

Hobbies and Personal Interests

I volunteered for PythonPH, a Python User Group in the Philippines that holds PyConPH. I helped organize PyConPH 2014 and I was a speaker for PyconPH 2015 as well as during some monthly meet-ups. Slides of my talks can be found at `https://speakerdeck.com/skytreader`.

Aside from coding, I enjoy reading artistic literature, making sketches, and practicing Taekwondo. I am also interested in calligraphy and amateur photography. Some of my amateur photographs can be found at `http://chadestioco.deviantart.com` .