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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 09/14/14.
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Professional Interest

My current work focuses mostly with back-end networking technologies but I am also interested in full stack web development; I frequently write small-scale webapps for my personal use as well as for some internal utilities at work. I am interested in various things in my craft from algorithms in general to good software design.

Field Experience

- **Research and Development Engineer, Chikka Philippines Inc. (September 2012 - Present).**

At Chikka, I am part of the Connectivity Team. It is our primary responsibility to oversee the development and maintenance of the Chikka SMS Gateway (CSG), Chikka's main infrastructure. The CSG acts primarily as an intermediary between the SMSCs and various content providers. We also work with and develop various APIs; I have worked on APIs that allows clients to interface with a telco's services.

My infrastructure work at Chikka puts a strong emphasis on app performance and throughput. I have worked with various queueing mechanisms (Redis, ZMQ, etc.), and optimized Java and Python apps. I have also been involved in researching mobile networking protocols (SMPP, SCTP) for possible use in CSG. Occasionally, I am tasked to create web tools to interface with our infrastructure.

- **Software Developer Trainee, Azeus Systems Philippines Ltd. (May 2012 - July 2012).**

Azeus is a Hong-Kong-based company with dev operations in Manila. Azeus works on web apps for the Hong Kong government as well as in-house developed web and mobile apps. At Azeus, I received training in Oracle 9i/10g/XE, PL-SQL, web development, Java best practices, and JSP.

- **Undergraduate researcher, Computer Vision and Machine Intelligence Group (CVMIG), UP-Diliman (June 2011 - April 2012).** We created a system that recognizes Porites, a genus of corals, from images taken underwater. We used a search based on texture approach, with the Gabor Filter as an important component of the comparison.

This research was done in cooperation with the UP Marine Science Institute and the UP National Institute of Physics under the Automated Rapid Reef Assessment (ARRAS) Project. We were advised by Professors Prospero Naval Jr. and Abigail Razon.

- **Summer intern, Azeus Systems Philippines Ltd. (April 2011 - May 2011).** We worked on a location-based social networking app for Android based on Google Maps. It was built using the Android Java SDK while the networking functionalities was built using jWebSocket.

Among my responsibilities were designing UI-mockups for the module assigned to me, coding a messaging-like system, and coding the map-based features of our module.

- **Project leader, GradeGrid (December 2010 - March 2011).** GradeGrid is an online class-record management tool created for teachers. Aside from storing several class records, the system also allows teachers to define several grading-rubric templates to be used in evaluating their students. It can also generate reports based on the teacher's current class records.

GradeGrid was built from the ground-up using PHP and MySQL. Among my responsibilities as a project leader were creating the main UI theme of the project, integrating the code from my co-developers into the main project, and coding the core functionalities of GradeGrid, namely the class record and the export functions.

Technical Proficiencies

- **Programming Languages.** I use Java, JavaScript, Python, and PHP extensively for personal and professional projects. I have also been instructed in Scheme and I'm comfortably familiar with it. During my undergraduate, I have also worked with C and have used Octave for numerical computing.
- **Database Design.** I use MySQL most of the time but I've also worked with Oracle/PL-SQL, PostgreSQL, and SQLite. In my code I have interfaced with databases in Java (MySQL Connector/J, Oracle JDBC) and in Python (MySQL-python, umysql).
For non-relational databases, I have used Redis as cache storage and as a message queue.
- **Web Design.** I have a good grasp of using PHP and Python for server-side programming. I have also received training in JSP and have used it for a month or so in implementing a module in a web app. I can design and implement web user interfaces using HTML4.01, CSS2, and JavaScript. I am comfortable with jQuery and have worked with the Validate and UI plug-ins. I have also used AJAX extensively.
- **Frameworks and Libraries.** I am comfortable with the MVC design pattern and have worked with various frameworks, proprietary and open source, that utilize this pattern. I have worked with CherryPy, Flask, Tornado, and CodeIgniter. I also have a working knowledge of Django (1.5) from some side-projects that lasted for around three months. For sometime during my undergraduate research work, we used OpenCV and its Java bindings, JavaCV.
- **Platforms.**
 - **Desktop/Server computing.** I started working with computers under Microsoft Windows. I started using Linux personally in March 2010 and have used it for my personal work since then. I prefer using Ubuntu but I have also used CentOS servers at work.
 - **Mobile computing.** I spent two months working on a project that utilized Google Maps for the Android platform.
- **Miscellaneous.** I have used Subversion and Git in collaborating with other developers. I have considerable proficiency in Adobe Photoshop and InDesign, acquired as a layout artist for our high school paper; I have used Photoshop to prototype UI design for an Android project.

Hobbies and Personal Interests

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>.