Kriztoper D. Urmeneta

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EXPERIENCE

- **Prime Software Development Corporation** Cebu City, Cebu
  Research and Development Intern *Jun. 2017 - Jul. 2017*
  - Researched and developed prototypes using Object-Relational Mapping(ORM) frameworks that maps SQL queries into object models for Rapid Application Development(RAD).

EDUCATION

- **University of the Philippines Visayas Tacloban College** Tacloban City, Leyte
  Bachelor of Science in Computer Science *Aug. 2014 – Jun. 2019*

PROJECTS

- **Foodesire** *(https://foodesire.herokuapp.com)* Ruby on Rails
  - Integrated the user login via Facebook and added a Facebook sharer feature to share a post with the web app's link and thumbnail. Implemented the search and filter features relative to the food tags and information. Added asynchronous update and display of food items using jQuery AJAX methods.

- **UPVTC Sports Equipment Inventory System (UPVTC SEIS)** Java
  - Implemented system to database interaction via SQL queries through JDBC(Java Database Connectivity). Implemented system features such as borrow equipment, return equipment, create, edit and delete student account, and display account history. Implemented admin panel features.

- **Space Ninja** Java
  - Developed the sending and receiving of datagram packets for the communication of the 2 computers (players), implemented the ball/star's orbital movement, ninjas' actions, and powerups mechanism.

- **Ensemble Image Colorization using CNN** Python, Tensorflow, Keras
  - Created other colorization network and a refinement network where the colorization results of 2 colorizers are combined and refined by the refinement network, and added image colorfulness metric for quantitative measurement. Visualized and analyzed output data in a graph to understand model performance.

- **Image Compression using Modified SVD** Python, Jupyter Notebook
  - Implemented the proposed k-computation formula to reduce matrix rows of 2 color channels with rank k. Updated the compression ratio based on rank k and the 2 compressed color channels.

- **EC Programming Language** Java
  - Designed the grammar rules with the syntax based on Ruby. Developed the code tokenizer and interpreter for the tokenized strings, and implemented the unit tester to validate the language.

- **Connect 4 vs AI** Java
  - Developed the AI component using the minimax algorithm in which I created an evaluation function to assess board position, and improved the best move search through alpha-beta pruning.

CERTIFICATIONS

- **PhilNITS Level 2 FE Exam Passer**
  https://www.philnits.org/passers201510.html#Oct2017FE *Oct. 2017*
  - Passed the PhilNITS(Philippine National IT Standard) Level 2 FE(Fundamental IT Engineering) Exam which is the government certified IT fundamentals exam and is based on Japan's biggest IT engineers standard examination.

LANGUAGES AND TECHNOLOGIES

- (proficient): Java, Git (prior experience): Python, C, Ruby, Ruby on Rails, PHP, SQL, MySQL, PostgreSQL