

# Kriztoper D. Urmeneta

(<https://github.com/Kriztoper>) (<https://gitlab.com/krizzy>)

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## EXPERIENCE

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### • Prime Software Development Corporation

*Research and Development Intern*

Cebu City, Cebu

*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

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### • University of the Philippines Visayas Tacloban College

*Bachelor of Science in Computer Science*

Tacloban City, Leyte

*Aug. 2014 - Jun. 2019*

## PROJECTS

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### • Foodesire

(<https://gitlab.com/krizzy/cmsc128-project-foodesire>)(<https://foodesire.herokuapp.com>)

Ruby on Rails

*May 2017*

- 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.

### • Space Ninja

<https://gitlab.com/krizzy/cmsc140-mp1-punch-ball-jump>

Java

*Jul. 2018*

- 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' mechanisms.

### • Ensemble Image Colorization using CNN with Refinement Network

<https://github.com/Kriztoper/deep-koalarization>

Python, Tensorflow, Keras

*Apr. 2019*

- 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.

### • Image Compression using Modified SVD

<https://github.com/Kriztoper/jupyterexplore>

Python, Jupyter Notebook

*May 2018*

- 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

<https://gitlab.com/krizzy/cmsc141-mp1-ec>

Java

*May 2017*

- 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

<https://github.com/Kriztoper/cmsc123mp03>

Java

*Jul. 2016*

- 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

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### • 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

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- (proficient): Java, Git (prior experience): Python, C, Ruby, Ruby on Rails, Jupyter Notebook, SQL, L<sup>A</sup>T<sub>E</sub>X