KRIZTOPER D. URMENETA

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EDUCATION

UNIVERSITY OF THE PHILIPPINES VISAYAS TACLOBAN COLLEGE *Tacloban City, Leyte*
Bachelor of Science in Computer Science *Aug 2014 - Jun 2019*
Relevant Coursework: Software Engineering; Databases; Algorithms; Data Structures; Operating Systems

WORK EXPERIENCE

PRIMARY SOFTWARE DEVELOPMENT CORP *Cebu City, Cebu*
Research and Development Intern *Jun 2017 - Jul 2017*
- Demonstrated a framework with 2 other tools the developers applied to rapid application development.
- Developed prototypes and 1 major application using the framework with teammates.
- Assessed 3+ useful features of the framework.
- Reviewed submitted code by other developers which lessened the merging issues by 90%.

CERTIFICATIONS

Philippine National IT Standard Level 2 FE(Fundamental IT Engineers) Certification Exam
https:// www.philnits.org/ passers201510.html#Oct2017FE *Oct 2017*
- A government-certified IT fundamentals exam based on Japan's biggest IT engineers standard exam.

PROJECTS

UPVTC Sports Equipment Inventory System (UPVTC SEIS) *Java, JDBC, MySQL*
- Spearheaded the project with a team of 1 designer and 2 developers.
- Implemented reporting tools for displaying reports of the program after every 1 or 2 months.
- Operated window builder tools that reduced development time by 1 or 2 weeks.

Connect 4 vs AI Game *Java*
- Created a normal AI which can beat an average player by at least 20 over 50 games.
- Decreased the number of moves evaluated by over 30% through alpha-beta pruning.
- Designed the AI that outputs a score between the range [-50000, 50000] which shows who's winning.

CPU and Disk Scheduling Algorithm Visualization *Java, JavaFX*
- Prevented deadlocks by ~90% in the allocation of CPU memory.
- Initiated real-time visualizations with near 0 delays on all windows.
- Doubled development performance by using visualization tools that reduced development time by 2 weeks.

EC Programming Language *Java, JUnit*
- Collaborated with teammates on the full design of the grammar rules with at least 12 language features.
- Introduced regular expressions on code tokenization which decreased development time by 2 to 3 weeks.
- Initiated unit testing that removed manual testing, which operates in <1 sec. on language validation.

Ensemble Image Colorization using CNN *Python, Tensorflow, Keras*
- Minimised the average colorization error to ~0.005 using an ensemble of neural networks.
- Surveyed correspondents and reached a high naturalness test score of 84.8%.
- Eliminated around 2 extra processes involving users by automating the process.

Image Compression using Modified SVD *Python, Jupyter Notebook*
- Performed compression while maintaining naturalness by an average of 30.46%.
- Uncovered that the compressed images could fool people 30% of the time.
- Co-authored with 3 other students a research paper about the results.

Foodesire Web App *(https://foodesire.herokuapp.com)* *Ruby on Rails, PostgreSQL*
- Expanded the publicity by ~20% by adding a Facebook sharer feature.
- Launched the asynchronous update of all user interfaces in real-time with <1 sec. delay.
- Conducted a test launch with constructive feedback from 14 correspondents.

SKILLS

(Development): Java, Python, C, Ruby, Ruby on Rails, PHP, Laravel, **(Databases):** SQL, MySQL, PostgreSQL, **(DevOps):** Git, **(Testing):** JUnit, **(SDLC):** OOP, UML, Agile, Jira, **(Libraries):** JavaFX, **(OS):** Windows, Linux