

Rui Peng

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Syracuse, NY github.com/pengr7

EDUCATION

Syracuse University, College of Engineering and Computer Science

M.S., Computer Science, 05/2020

Sun Yat-sen University, School of Data and Computer Science

B.E., Software Engineering, 06/2018

WORK EXPERIENCE

Goody Entertainment Co., Ltd., C++ Programmer Intern, 03/2018 - 04/2018

- Fixed issues and added features to a cross-platform multiplayer video game
- Tested functions and the overall gameplay
- Collaborated thoroughly with colleagues in design, implementation, and testing

Sun Yat-sen University, TA in Software Engineering Training, 08/2016

- Guided students in developing a command-based agenda management system, answered their technical questions and assisted them in debugging
- Inspected and evaluated students' code and performance

PROJECTS

The Quasar Database, 11/2019 - 12/2019

- Designed, implemented, tested, and analyzed an SQL server database for an E-commerce platform
- Utilized the E-R diagram, BCNF normalization, views, constraints, triggers, encryptions, stored procedures, functions, and transactions to enforce business logic and fit real-world demands
- Tested the database comprehensively with meaningful data and provided exhaustive documentation for the whole project

Rubik's Cube Simulator, 05/2017 - 08/2017

- Developed a Rubik's cube simulator in C++ using OpenGL
- Implemented basic operations (turning), view tuning, shuffling, and solving
- Provided detailed documentation, including a clear user manual

Matrix, 04/2015 - 06/2015

- Developed classes Matrix and Vector in C++ for linear algebra operations
- Implemented matrix operations, sorting, calculation of determinant & inverse, file I/O, and OpenGL visualization
- Utilized templates, overloading, inheritance and exception handling

AWARDS

- Merit-based scholarship at Syracuse University, 02/2018
- #3 among 277 contestants in "Large-scale Classification-SYSU-2017" on Kaggle, 07/2017
- Honorable Mention in the Interdisciplinary Contest in Modeling, 04/2017
- Individual scholarship at Sun Yat-sen University, 09/2015

SKILLS

- Programming Languages: C/C++ (including C++11), T-SQL, MATLAB, Android, Haskell, Java, Python
- Platforms: Windows, Linux, Visual Studio, SQL Server (including SSMS), Jupyter Notebook
- Languages: English (fluent), Mandarin