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Yvette (Wenye) Yu

EDUCATION

University of Waterloo (UW), Canada

09/2010 - Present

Master Candidate of Mathematics, Computer Science, Co-op Program. GPA: 86.14/100.

The Hong Kong Polytechnic University (HKPU), Hong Kong

09/2005 - 06/2010

Bachelor of Science (Honors) in Computing, with First Class Honors. GPA: 3.53/4.00.

QUALIFICATIONS

- Technique Python, C/C++, Java, C#, Objective-C, Matlab, SQL, UML, ASP.NET, AJAX, Git, Perforce, Ruby and RoR, Linux, XML.
- Soft Skills Algorithm, problem solving, fast learning.

EXPERIENCE

LTE Development Intern 05/2011 – 12/2011

Research In Motion, Waterloo, Canada

- In charge of the design and implementation of a parser with Python and C++ that takes test logs, codes and header files as inputs, and produces test scripts for automatic testing.
- Responsible for creating a test client with C# and Python, which accepts tests from scheduler, sets up test environment, and starts tests automatically.
- Assisted in LTE validation functionality by generating new threads to verify and measure the communication at physical layer.

Software Developer 06/2008 – 05/2009

IT Department, National Institute of Aquatic Resources, Technical University of Denmark, Denmark

- In charge of the design and implementation for research GIS website *Fiskepleje* and five other research websites with C#, AJAX, ArcGIS Server, and Google APIs (including Google Earth, Maps, Visualization, Charts).
- Responsible for KML function development of the commercial product Ship Information System (SIS) with C#.
- Revised and upgraded the GIS tool VSTOOL and added new function with C#.

Dababase Designer 07/2007 – 08/2007

Department of Nephrology, Peking University First Hospital, Beijing, China

• Designed a new user interface and revised the relational table with MS Access and SQL for medical record database.

PROJECTS

- **Compiler Construction** (*UW CS644 Course Project*) Constructed a compiler with Python for a Java-like language that implements scanning, parsing, type checking, runtime organization, and code generation, and finally outputs i386 assembly language.
- Optimize Database Implementation (*UW CS648 Course Assignments*) Modified the source code of PostgreSQL to compress the prefix key in internal data structure, and optimize the query processing.
- **Image Inpainting (***UW CS870 Course Project***)** Realized the Level-Set function model with Matlab to provide a user interface that allows user to choose a damaged range in a grayscale image, and auto-fills the broken part.
- **GAE Sites Development** Established GAE sites with Python and Javascript to provide a cube-attack cryptography calculator (*UW CS758 Course Project*), and a news-comments classifier (*UW CS848 Course Project*).
- Advanced Geographical Information System (*Final Year Project at HKPU*) Proposed and implemented an advanced GIS that provides a portable product, allowing user to collect environmental data along everyday route, upload and share the data in server, and retrieve the analysis and personal health report.
- Other Projects Donation Database System by C#, Course Enrolment System by RoR, Simulated Unix by C, self-designed GUI OS by VB, Air-ticket Booking System by Java, Interactive Virtual Reality 3D Game by OGRE and C++, small iPhone apps by Objective-C.

ACTIVITIES

- Student Mentor of CSter Program, Women in Computer Science at UW, 2011.
- Technique support of IT Department, Chinese Student and Scholar Association (CSSA) at UW, 2011.
- General Secretary of Society of Computing Studies 2007, Cultural Secretary of HKPU Hall Students' Association 2005.
- Student coordinator in Cambodia Youth School Service 2010, Gansu (China) Orphanage Project 2008 2009.

AWARDS

- Finalist for Canada Google Anita Borg Memorial Scholarship, 2011.
- Gold Prize for SPECIAL All-round Student Awards of HKPU, 2010.
- Seymour Cray Outstanding Placement Awards, 2009.
- Active Participant in IBM DB2 UDB Inter-University Programming Contest in Hong Kong, 2008.
- E.F. Codd Scholarship for Outstanding Students, Hong Kong CMA & Donors Scholarship, Hong Kong Computer Society Scholarship 2006/07; HKPU Mainland Students Scholarship 2005 2010.