Mincong Zhang

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WORK

Factset Europe Ltd Jan-now, 2015
Working in Market Data department
Real time market data with C++, Boost and multithreading

EDUCATION

University College London 2013-2014
MSc Computer Graphics, Vision and Imaging

Queen Mary, University of London 2009-2013
& Beijing University of Posts and Telecommunications
BSc Telecommunications Engineering with Management
Double-degree, First Class Honours

INTERNSHIP

3D Industri.es (a 3D retrieval/printing startup company) Jun-Dec, 2014
Part-time: helped to improving a 3D retrieval system
- Experimented a 'partial-search' 3D retrieval system

MSc final project: Built a experimental 3D retrieval system
- A shape-based retrieval system, which provides a scan-to-search solution
- Used spherical harmonics and shape histograms to describe 3D shapes
- With C++, MFC, OpenGL, OpenMesh
- Repo: github.com/mincongzhang/3D_Retrieval_scan2search

Ericsson - Region North East Asia (RNEA) Apr-Aug, 2013
Worked in a Cross Function Team in Development Unit for IP & Broadband department

- Project on PT router
  Imported a web server (based on https protocol) into PT router
  - I developed the frontend website framework
  - Including login, main pages, Data Communication Network (DCN) page and Software Download (SWDL) page
  - Applied Ajax and Json, and focused on the cross-browser ability
- Project on IP Operating System (IPOS)
  White box test for IPOS
  - Unit test: applied Google C++ Testing Framework
- Project on SP switch
  Black box test for Quality of Service (QoS)
  - Perl scripting to verify the Congestion Avoidance functions on SP switch

HACKATHON

J.P. Morgan and the Code for Good Challenge Nov, 2013
An android app to collect customer information for micro-finance firms, including Client Registrations, Group Registrations, Loan Applications and Offline Mode
- I developed the frontend User Interface of the Group Registrations
- Joint runners-up team

RESEARCH

Undergraduate Final Project: The influence of amplifier settings on the perception of 'heaviness' in guitar timbre Nov, 2013

Aims to objectively measure the relationship between amplifier settings and the perception of 'heaviness'

- More than 900 registered users from UK and China participated in the final web-based listening test
- Supported by 2 supervisors from Centre for Digital Music in Queen Mary, University of London
- Results contribute to the fields of emotion detection in music and genre
- Involving:Python scripting, website construction (Django), database (SQLite), signal processing (Matlab), Algorithm design
- Repo: github.com/mincongzhang/UnderGradFinalProject

PROJECTS

Machine Vision 2013-2014

- Realtime augmented reality
- Apple Detection (EM algorithm), Panorama, etc.
- Repo: github.com/mincongzhang/MachineVision

Acquisition and Processing of 3D Geometry 2013-2014

- Sketch-to-search 3D retrieval system
- ICP alignment/Mesh denoising system
- Repo: github.com/mincongzhang/3DGeometry

Computer Graphics 2013-2014

- Sketch-to-search 3D retrieval system
- Implemented Ray Tracing, Clipping, Robot modelling and Splines
- Repo: github.com/mincongzhang/ComputerGraphics

Image Processing 2013-2014

- Face Detection & Poission Editing
- Repo: github.com/mincongzhang/ImageProcessing

Advanced Transforms 2011-2012

- Wavelet/Fast Fourier transform
- Repo: github.com/mincongzhang/Toolbox/tree/master/AdvancedTransform

POSITIONS

- Staff in IT department of Chinese Students and Scholars Association at UCL Union 2013-2014
  - Managed the CSSA website and WeChat public platform
- Vice president of the Animation & the Guitar Societies 2010-2011
  - Both of the societies won the title of Top Five Associations
- In charge of the Student-Staff Liaison Committee(with university staff in Beijing and London) 2009-2010

SKILLS

C++, OpenGL/OpenMesh, Boost, Python, Perl, Matlab

INTERESTS

Guitar (5 years), Animation, Tennis, Jitsu