Mincong ZHANG

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EDUCATION

2013-now University College London

MSc Computer Graphics, Vision and Imaging

2009-2013 Beijing University of Posts and Telecommunications

& Queen Mary, University of London

BSc Telecommunications Engineering with Management

Double-degree, First Class Honours

INTERNSHIP

APR-AUG Ericsson - Region North East Asia (RNEA)

eijing

2013 Intern in a Cross Function Team in Development Unit for IP & Broadband department

Project on PT router

Research & Development

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)

Integration & Verification

White box test for IPOS

- Unit test: applied Google C++ Testing Framework

Project on SP switch

Integration & Verification

Black box test for Quality of Service (QoS)

- Perl scripting to verify the Congestion Avoidance functions on SP switch

RESEARCH EXPERIENCE

2012-2013 Graduation Project: The influence of amplifier settings on the perception of 'heaviness' in guitar timbre

- Aims to objectively measure the relationship between amplifier settings and the perception of 'heaviness'
- Involving:Python scripting, website construction (Django), database (SQLite), signal processing (Matlab), Algorithm Design
- More than 900 registered users from UK and China participated in the final web-based listening test
- Repo: github.com/mincongzhang/UnderGradFinalProject
- 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

2011-2012 Project: Research into the Ruin Probability Problems (Actuarial Science)

- Introduced multiple transition states into ruin probability matrix, to find out the absorption time of the Birth-death Chain with two absorption barriers
- Team leader(5 members), Won The Beijing Municipal Research Award
- Publication:

Mincong Zhang, Hao Zhang, Tingting Wang *The Gambler's Ruin Problem with Multiple Transition States*

The 7th International Conference on Matrix and Operator Theory

PROJECTS IN UNIVERSITY

- MoG model, Panorama, tracking, etc. 2013-2014 Acquisition and Processing of 3D Geometry - Scan-to-search 3D retrieval system - Sketch-to-search 3D retrieval system - ICP alignment/Mesh denoising system 2013-2014 Image Processing - Poission Editing 2013-2014 Computer Graphics Coursework	2013-2014	Machine Vision	Coursework	
- Scan-to-search 3D retrieval system - Sketch-to-search 3D retrieval system - ICP alignment/Mesh denoising system 2013-2014 Image Processing - Poission Editing 2013-2014 Computer Graphics Coursework		- MoG model, Panorama, tracking , etc.		
- Sketch-to-search 3D retrieval system - ICP alignment/Mesh denoising system 2013-2014 Image Processing - Poission Editing 2013-2014 Computer Graphics Coursework	2013-2014	Acquisition and Processing of 3D Geometry	Coursework	
- ICP alignment/Mesh denoising system 2013-2014 Image Processing Coursework - Poission Editing 2013-2014 Computer Graphics Coursework		- Scan-to-search 3D retrieval system		
2013-2014 Image Processing - Poission Editing 2013-2014 Computer Graphics Coursework		- Sketch-to-search 3D retrieval system		
- Poission Editing 2013-2014 Computer Graphics Coursework		- ICP alignment/Mesh denoising system		
2013-2014 Computer Graphics Coursework	2013-2014	Image Processing	Coursework	
·		- Poission Editing		
	2013-2014	Computer Graphics	Coursework	
- Implement Ray Tracing, Clipping, Robot modelling and Splines		- Implement Ray Tracing, Clipping, Robot modelling and Splin	es	
Nov 2013 J.P. Morgan and the Code for Good Challenge 24-hour Hackathon	Nov 2013			
- An android app to collect customer information for micro-finance firms		- An android app to collect customer information for micro-finance firms		
- Including Client Registrations, Group Registrations, Loan Applications and		- Including Client Registrations, Group Registrations, Loan Applications and		
Offline Mode		Offline Mode		
- I developed the frontend User Interface of the Group Registrations		- I developed the frontend User Interface of the Group Registrations		
- Joint runners-up team		- Joint runners-up team		
2011-2012 Advanced Transforms:Wavelet/Fast Fourier transform Coursework	2011-2012	Advanced Transforms: Wavelet/Fast Fourier transform	Coursework	
2011-2012 Digital Signal Processing: Butterworth filter design Coursework	2011-2012	Digital Signal Processing: Butterworth filter design	Coursework	

POSITIONS OF RESPONSIBILITY

2013-now	Staff in IT department of Chinese Students and Scholars Association at UC Union	
	- Manage the CSSA website and WeChat public platform	
2010-2011	Vice president of the Animation Association & the Guitar Association (Beijing)	
	- Both of the associations received the title of <i>Top Five associations</i>	
2009-2010	In charge of Public Relations Department in the Red Cross Association	
	- Organized First Aid Training for students	
2009-2010	In charge of the Student-Staff Liaison Committee(with university staff in Bei-	
	jing and London)	

SKILLS

C++, Python, Perl, JavaScript (Ajax, Json), Django, OpenGL/OpenMesh, Matlab, \LaTeX

LANGUAGES

CHINESE: Mothertongue ENGLISH:Fluent (IELTS: Overall 7)

INTERESTS

Guitar (5 years), Animation, Tennis, Jitsu