Lab #228
CITI building
Academia Sinica, Taipei, Taiwan

Hseuh-Hung Cheng

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http://xuehung.github.io

EDUCATION

National Taiwan University (NTU)   *Sep 2007 – Jun 2011*
Bachelor of Computer Science and Information Engineering (CSIE)   *Taipei, Taiwan*
Overall GPA: 3.73/4.00, Major GPA: 3.89/4.00
  • <u>Relevant Coursework</u>: Data Structures and Algorithms, Probability, Artificial Intelligence, Machine Learning, Computer Networks & Lab , Database Systems, Networked Embedded Software Design, Introduction to Advanced Performance Modeling

HONORS AND AWARDS

Regional Champion, Startup Weekend   *Nov 2013*
  • Won the first place in Startup Weekend Taipei and will represent Taipei City to compete in Global Startup Battle
Best Paper Award, IEEE APSCC   *Dec 2011*
  • Elected for award of Best Paper in 2011 IEEE Asia-Pacific Services Computing Conference
Presidential Award, NTU   *Spring Semester 2011*
  • Received the presidential award which is awarded to the students with top 5% GPA
Semi-Finalist, Google Online Marketing Challenge   *Aug 2011*
  • Led team of 6 and received semi-finalist among 5,000+ students of 100+ countries in 2011 Google Online Marketing Challenge

RESEARCH/ACADEMIC PROJECT EXPERIENCE

Network and Mobile Systems (NMS) Lab, Academia Sinica   *Aug 2012 – Present*

Video Streaming Interception and Adaption for Remote Desktop Protocols
  • Organized a joint project of Academia Sinica and Institute for Information Industry to improve the performance of playing video through Remote Desktop Protocol
  • Implemented a middleware to intercept streaming packets, dropping non-key frames to adaptively meet the limited bandwidth between the RDP clients and the RDP server

Preference-Aware Opportunistic Content Dissemination
  • Proposed an algorithm to select a set of users with initial content objects to offload 3G traffic with proximity-based communication in a mobile social network in consideration of both social structures and heterogeneous preferences
  • Conducted experiments to evaluate the performance of disseminating data with three real traces, showing about 49.3% improvement in average utility with our proposed source selection algorithm

Smart Home Group, Intelligent Robot Lab, NTU CSIE Department   *Sep 2010 – Jun 2011*

Smart Home Box
  • Developed a home gateway that manages heterogeneous sensors and devices in a smart home environment and performs service composition to dynamically compose a service such as energy saving service which consists of different kinds of sensors working together. Apache Active MQ was used for sensors to wirelessly communicate and exchange data in JSON format.

Preference Expression for Pervasive Service Composition
  • Proposed a unifiable expression language to present both enumerative/numeric and mandatory/negotiable user preferences for components in service composition
  • Designed simulations to show the ability of proposed expression to meet user satisfaction and success rate of service composition. (published: [1])

PUBLICATION

  • [1] Chun-Feng Liao, Hsueh-Hung Cheng and Li-Chen Fu, "**Unifiable Preference Expressions for Pervasive Service Composition**", in Proceedings of 2011 IEEE Asia-Pacific Services Computing Conference, 2011

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PROFESSIONAL EXPERIENCE

Research Center for Information Technology Innovation, Academia Sinica   *Aug 2012 – Present*
Research Assistant   *Taipei, Taiwan*
- Focused on research topics include traffic offloading in cellular network and network mobility
- Managed academic projects and survey research references and other materials

Billie Industrial Corp., Corporation for Special Coffee Roasting   *Jul 2012 – Aug 2012*
Web Developer – Freelancer   *Taipei, Taiwan*
- Built company e-commerce website including a shopping cart and a login system
- Designed webpages to achieve Search Engine Optimization and proposed product promotion programs

Navy Command Headquarters, Navy, Republic of China   *Dec 2011 – Jul 2012*
Ensign - Information Network Officer   *Taipei, Taiwan*
- Maintained servers and managed certificate-based public-key infrastructure (PKI) cards
- Led 2 soldiers to fix any computer problems in the Navy headquarters campus

Intelligent Robot Lab, NTU CSIE Department   *Apr 2010 – Jun 2010*
Undergraduate Research Assistant   *Taipei, Taiwan*
- Ported embedded Linux to ARM11 Samsung S3C6410 development board
- Minimized the size of kernel and built Java Runtime Environment

Student Activity Division, NTU Office of Student Affairs   *Feb 2009 – Jul 2009*
Teaching Assistant   *Taipei, Taiwan*
- Integrated World Volunteer Society's overseas volunteering with course of Student Activity Division
- Summarized the outcomes and reported students' feedbacks to the school

EXTRACURRICULAR ACTIVITIES

World Volunteer Society, *Director of Activities/ Team Leader*   *Sep 2007 - Aug 2009*
- Hosted International Volunteer Day and promoted our volunteer programs in National Taiwan University
- Took care of the physically challenged children in Missionaries of Charity in India for 2 weeks
- Organized a volunteer program and led 9 students to cooperate with NGOs in Philippines on education and enrichment projects

Basketball Team, NTU CSIE Department, Player   *Sep 2007 - Jun 2010*
- Played the small forward on the team and practiced for three hours each time, two times a week

PROFICIENCY

Programming languages: C/C++, Java, Python, Ruby, PHP, SQL, HTML, JavaScript, CSS
Tools & Platforms: Eclipse, Git, LaTeX, Linux

INTERESTS

Basketball, Cycling, Backpacking, Photography, Erhu