

Kevin Xu

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Education

University of Pennsylvania School of Engineering and Applied Science

- **BSE in Computer and Information Science**, Class of 2012
- **Cumulative GPA:** 3.99
- **Relevant Coursework:** Operating Systems, Compilers and Interpreters, Databases, Computer Graphics Techs, Randomized Algorithms, Software Systems, Network Security

Employment

Course Co-Instructor - Penn CIS Department

Jan 2012 to May 2012

- Co-taught a course teaching fundamental Unix and Linux skills
- Prepared lectures, quizzes, and homeworks on a weekly basis

Corporate Engineering Intern - Google New York

May 2011 to Aug 2011

- Developed a web application for call reporting as a member of the TelOps team
- Worked with Java, HTML, CSS, Javascript, and Google AppEngine

Teaching Assistant – Penn CIS Department

May 2009 to Dec 2011

- Teaching assistant for the following courses: Intro to Computer Science, Intro to Computer Systems, Operating Systems
- Held office hours, recitations, and review sessions to address students' questions.

Research Assistant – Penn CIS Department

May 2010 to Aug 2010

- Worked on a stereo correspondence program for the purpose of 3-D telepresence
- Used NVIDIA's CUDA C to program GPUs on NVIDIA graphics cards

Projects

BERTRAM: A Bartending Robot

Sept 2011 to Apr 2012

- Developed an immersive tele-operation system for the Willow Garage PR2 robot
- Coordinated many different devices using ROS to operate the robot

P25 and Software Radio

Sept 2010 to Jan 2011

- Worked with GNU Software Radio code to listen in on P25-encrypted transmissions
- Group results eventually published in a paper titled "Why (Special Agent) Johnny (Still) Can't Encrypt" and presented at the 2011 USENIX Technical Conference

GPU Computing in 3D Telepresence

May 2010 to Aug 2010

- Wrote a stereo matching program using NVIDIA's CUDA C and OpenCV to produce depth maps from left-right image pairs
- Worked with a Bumblebee2 camera to process real time data from a live video feed

Skills/Trivia

- Languages (in order of proficiency): C/C++, Java, Python, Bash, Javascript
- STWing Rube Goldberg competitions, placed 3rd in 2009, 2nd in 2010, and 1st in 2011