

# Kevin R. Lange

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## Contact

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## Information

Github: <http://github.com/klange>

## Education

**Senior**, University of Illinois at Urbana-Champaign, Urbana, IL 2009-2012

- Major in Computer Science; Expected graduation May, 2012
- Minor in International Studies in Engineering, Japan

**Exchange student**, Hiroshima Institute of Technology Summer 2010

- Cultural exchange program

## Software Projects

**Developer**, Compiz Desktop 2007-2009

- OpenGL X11 window compositor (C)
- Bug fixing and feature enhancements which ship in all major Linux distributions
- Developed pseudo-3d environment using webcam-based head tracking in OpenCV by Haar-like object detection.

**Development Staff**, ACM@UIUC MechMania 2010-2012

- Annual AI programming competition development
- Implemented Python client API (Python, sockets, Protocol Buffers)
- Built game visualization tool (C++, ncurses)
- Competition manager and development lead, 2011

**Lead Developer**, ACM Vending / Caffeine 2010-2012

- Platform for smart vending machines
- Python software stack communicates with embedded system over serial, authenticates users via magnetic strip cards, handles monetary transactions through MySQL and manages inventory through a database of items.
- Maintains statistics on user consumption including total caffeine and calories and complete purchase history.

**Developer**, kmalloc Memory Allocator Fall 2010

- Simple slab allocator; provides faster allocations than glibc.

**Developer**, ToAruOS Microkernel Spring 2011-

- Work-in-progress custom Unix-like microkernel for x86 systems.

## Previous

### Employment

**Software Engineer**, Apple, Inc., Cupertino, CA Summer 2011

**Software design**, Cleveland Motion Controls, Inc., Cleveland, OH Summer-Fall 2008

- Rewrote client software in VB.NET from Visual Basic 6
- Developed custom installer package for .NET software (C#)

## Leadership Activities

**President**, Linux Users Group, University of Illinois Urbana-Champaign 2009-2011

- Manage project teams, run meetings, handle mailing list
- Develop ACM Vending software stack

**Staff**, ACM@UIUC Reflections|Projections Conference 2010-2011

- Guest relations, managed volunteer teams, aided corporate sponsors during job fair.

## Language

### Knowledge

Experienced: Python, C, PHP, C#; (X)HTML, CSS, Javascript,  $\LaTeX$

Familiar: C++, Java, Visual Basic (6/.NET), Perl, Ruby, x86 & MIPS assembly, OCaml