Justin S. Collins

justin@presidentbeef.com
3676 Mentone Ave. Apt 2
Los Angeles, CA 90034
(310) 895-1196

EDUCATION

PhD, Computer Science, emphasis in Mobile Systems
UCLA, Los Angeles, CA, Expected 2012.

Master of Science, Computer Science
UCLA, Los Angeles, CA, 2009.

Bachelor of Science, Computer Science
Seattle University, Seattle, WA, 2006.

SKILLS

Languages:
- Ruby - websites, system scripts, everyday tasks
- Java - mobile communication libraries
- PHP - websites, database reporting scripts
- C/C++ - modifications to Qualnet, classwork
- Python - classwork

Operating Systems: Linux, Microsoft Windows, Android
Applications: Qualnet, Git, Subversion

EXPERIENCE

Graduate Student Researcher   *July 2007 - Present*
UCLA, Mobile Systems Lab, Los Angeles, CA
- Researching application development for mobile ad-hoc networks, focusing on the challenges of mobility and the wireless channel
- Published research surveying the current state of programming in mobile networks
- Performed quantitative study of mobile networks and routing protocols using Qualnet
- Responsible for managing lab computer network, servers, and resources

Information Security Intern   *June 2010 - August 2010*
AT&T Interactive, Glendale, CA
- Developed a static analysis security vulnerability scanner for Ruby on Rails applications
- Used this tool to discover and investigate vulnerabilities in both internal and external applications

Consultant   *November 2008 - November 2009*
Irell & Manella LLP on behalf of Wisconson Alumni Research Foundation, Los Angeles, CA
- Analyzed published papers and theses related to processor design, especially those involving branching and data prediction
- Compared prior art to patent claims concerning data load prediction in processors capable of executing instructions out of order

Technician   *May 2007 - July 2007*
PC Club, Los Angeles, CA
  - Software and hardware troubleshooting and repair of customer desktops
  - Provided customer service in-store and over the phone
  - Built custom desktops for customer orders
  - Recommended and sold computer parts and accessories to customers

System Administrator   *May 2005 - March 2007*
Klir Technologies, Seattle, WA
  - Responsible for all desktops, laptops, office servers, backup, and VoIP systems
  - Managed user, email, and phone accounts, as well as office software
  - Designed and implemented the public-facing company website in PHP and HTML
  - Developed reporting tools for the financial department using PHP and MySQL

Helpdesk Specialist   *November 2002 - June 2005*
Seattle University School of Law, Seattle, WA
  - Troubleshooting of software and hardware issues for staff, faculty and student computers. Provided classroom technology support
  - Performed parts replacements on desktops and laptops, including motherboards and processors
  - Developed new internal ticketing system using Ruby and MySQL for tracking help tickets, laptops, and part orders
  - Received special recognition from the dean for excellent customer service

PUBLICATIONS "Programming in Mobile Ad Hoc Networks." Justin Collins and Rajive Bagrodia.
Proc. of the Fourth International Wireless Internet Conference (WICON 2008)

"Greedy transformation of evolutionary algorithm search spaces for scheduling problems." David Joslin and Justin Collins.
IEEE Congress on Evolutionary Computation (CEC 2007)

"Improving genetic algorithm performance with intelligent mappings from chromosomes to solutions." Justin Collins and David Joslin.
Proc. of the 8th Annual Conference on Genetic and Evolutionary Computation (GECCO 2006)

EXTRA-   Open source projects: github.com/presidentbeef
CURRICULAR   *President*, Computer Science Graduate Student Committee, UCLA, 2010-2011
ACTIVITIES   *President*, Seattle University ACM, 2005-2006