

Intercasting Corp

Oct 2006 - Oct 2008

As **Senior System Administrator**, the primary in a two-person team, directly responsible for the uptime, performance, maintenance, and reliability of a mobile social network and its mobile-embedded API interfaces. The application was built on Apache front-end servers, retrieving logic from a Tomcat application, backed by a Postgres cluster and a NAS repository of user-generated content.

As space in the datacenter became scarce, designed and implemented a complete virtualization of the environment, spanning development, QA, staging, and production environments. Ultimately, two hundred virtual machines occupied thirty physical hosts, cutting the footprint to a third of its original, while providing over 99% uptime in the production environment, even during the migration.

Due to the peculiar back-end requirements of a site driven by user-generated content, architected and coordinated with developers to shard the database and users' content. Concurrently, comprehensive metrics made the results visible.

As typical of a small start-up environment, provided support for internal networks, desktops, mobile phones, office equipment, and other devices as needed.

University of California, Santa Cruz Sep 2004 - Jun 2006

As **Student Advisor III**, a generic catch-all title for work-study employees not otherwise classified, provided a diverse collection of system administration tasks to the Services for Transfer and Re-Entry Students department.

As a member of the campus-wide Email Steering Committee, brought students' voices to the technical decision makers. As webmaster for the Academic Resources Center, provided server-side debugging and educated departmental users in the use of technical applications to update their website.

Scientific work included assisting Dr. Laurel Fox in a field study of local ecological diversity, and a lab study on the hereditary components of ovary size in *Arabidopsis thaliana*.

For overall service, presented with the Student Employee Recognition Award from the Chancellor. For academic achievement, graduated with Kresge College Honors.

Logitech Spotlife

Aug 1998 - Sep 2003

As **Lead System Administrator**, and the first operations employee, provisioned and scaled a video streaming and photo storage system from the initial hardware purchase in four colocated racks, to twelve racks supporting a site with five million registered users. Significantly, introduced a sharding scheme to back-end NAS, migrated costly applications from solaris to linux, maintained greater than 99% uptime in production, and ultimately managed six direct reports.

Deluxe Corporation

Jan 1996 - Aug 1998

As **System Administrator**, maintained a small office network and its desktop components. Created Deluxe's first website, for the World's Easiest Software division, and subsequently built and managed five more divisions' sites.

Individual Software

Aug 1991 - Aug 1993

As a **Software Developer**, created retail-packaged, on-screen training programs, to teach Microsoft Office and Aldus Pagemaker in a conversational style.

Professional Memberships

IEEE, Oceanic Engineering Society
Electronic Frontier Foundation
American Society of Ichthyology and Herpetology

Recent Training

UCSD Extension: iOS Programming I
f5: BIG-IP Load Balancer Administration
Linbit: Administration of DRBD w/ corosync
Puppet Labs: Puppet Administration
UCSD Extension: Embedded Robotics
Cisco: Universal Computing Platform
VMware: vSphere Administration
UCSD Extension: Molecular Biology

Education

University of California, Santa Cruz
BS, Marine Biology
with Kresge College Honors

Travel

Willing to travel 50% or more.
Conversational in French.
Can manage in Spanish.
Basics of Japanese and kana.

Claims to Fame

Mini-PS3 Pi case featured on hack-a-day.
Staffed the first Linux booth at UnixWorld.
Two-digit Internic Handle.
First created a Wikipedia page in 2003.
Speaker at Seybold Seminars in 1997.
If your PS3 crashes, it reports to my server.