Robert Mibus

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Remote Staff SRE in Sydney, Australia

Summary

I'm a Staff SRE today, but I've been a developer, Systems Administrator, and people manager. I can spend all day in a hex editor, or drafting roadmaps for teams to work together on. I've led small teams and multi-team projects; I do coaching and mentoring on everything from career goals to communication skills.

I like to take a step back and ask what problem we're *really* trying to solve.

Skills

- Large-scale system design & architecture
- Excellent written and verbal communication
- Mentoring & coaching junior and senior employees
- Monitoring and SLOs
- Data Integrity / backup & restore
- Systems troubleshooting
- Core protocols - DNS, SMTP, LDAP, RADIUS; IPv6
- Tuning and query / index optimisation for databases (MySQL, BDB)
- Coding/scripting (bash, Python, Java/C++/Perl)

Experience

Senior SRE / Staff SRE, Google Photos (2018 – Now)

- Engineering Manager, later Technical Lead for Photos SRE in Sydney.
- Career coaching, performance management; setting SRE technical direction on 12-18 month roadmaps.
- Initiated and led delivery for multi-year program to limit outage blast radius through seamless partitioning.
- Led image-serving and image-processing related architectural/platform changes to allow for critical upcoming compliance features needed by other teams at Google.
- Led working groups of SREs across 5+ teams to survey and recommend reliability risk improvements across multiple products.

Site Reliability Engineer / Senior SRE, Google "Corp SRE" (2013 – Now)

- On a team responsible for three-nines and four-nines core infrastructure servicing Googlers (DNS, SMTP, Load Balancers, authentication, and more).
- Designed and implemented broad sets of improvements to various services and multi-service improvements (e.g. security).

- Became Technical Lead; assessed and set team priorities, created technical & organisational initiatives.
- Promoted to Senior SRE in 2016.
- Mentored and coached other members of the team.

Systems Administrator, Internode (2008 – 2013)

- Replaced DNS recursive resolver network; added semi-automated deployment.
- Designed and implemented a PCI-compliant backup system on a tight deadline.
- Maintained a IronPort Email cluster dealing with two million non-spam messages per day.
- Rebuilt undocumented legacy systems in-line with current best-practices, ensuring future maintainability; including webmail, email management and routing, backups, and DNS.
- Retired various unsupportable services, migrating customers to newer equivalents and reducing the support burden; includes deprecated SMS and backup systems, legacy mail routing configurations, and bespoke RADIUS servers.
- Systems expert in IPv6 project, adding IPv6 monitoring and IPv6-enabling many services.
- Developed (and later released as open-source) custom software for automatically handling or delegating IPv6 reverse DNS for large customer networks.

Industry

SAGE-AU / ITPA

I volunteered as the President of the South Australian Chapter (2009 – 2012), where I was responsible for managing monthly speaker and venue arrangements, later shifting to a board member for the national organisation (2013-2017)

Public Presentations

I have presented at SAGE-AU / ITPA's SA chapter, and at Linux.Conf.Au 2012 & 2013.

Education

- **Bachelor of Information Technology**, Flinders University (2001 – 2003); awarded membership to Golden Key Society based on academic performance.

References

Available on request