Ross MacLeod (Mellgren)

Software architect with networking, systems, and team building skillset.

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Hello! I'm a friendly, hardworking, and knowledgeable software architect with over 15 years of experience in the industry. My passion for learning has led to a wide skillset which includes networks and operations, UI/UX design, and frontend and backend development.

I'm looking for a full-time position with a great team who're both productive and fun with interesting challenges and opportunities to learn and teach. My ideal opportunity is a well-founded small company or start-up with big goals where I can exercise a wide variety of skills and make an impact.

Skills and Technologies

Languages

Haskell, Scala, Java, C, Python, SQL, Swift, Objective-C, HTML, CSS, JavaScript. Familiar with C#, F#, SML, OCaml.

Storage and Transmission

PostgreSQL, SQL Server 2000 — 2008r2, MongoDB, Hadoop, Hive, HBase, REST, WebSockets, JSON, XML, Avro, protobuf.

Tools and Platforms

macOS, iOS, Linux, Windows, Docker, Amazon AWS, Self-hosting, Firewalls, Load Balancers, Switches, Routers, Git, Puppet, Ansible.

Recent Work Experience

SimSpace Corporation Nov 2015 — Present

I started late 2015 as a Lead Software Engineer at SimSpace, a provider of virtual ranges for information security team training, assessment, product evaluation, and development.

- Led system design using small containerized services with a unified front end and scalable architecture.
- Introduced Haskell to team and trained other developers in its use, leading to improved productivity, lower incidence of defects, and more developer satisfaction.
- Led design and implementation of custom authentication and authorization framework to support complex authorization requirements gracefully.
- Extensively rewrote legacy user emulation system, shedding more than ½ of codebase while improving reliability, functionality, and maintainability.
- Primary maintainer of automated build infrastructure using: Jenkins, make, stack, sbt, npm, and Docker.
- Assisted other developers with design, implementation, and diagnosis.
- Directly interacted with customers: sales engineering, maintaining Windows & Linux virtual networks, and continuing relationship.

SocialBrain, Inc. Sep 2014 — Sep 2015

I was a cofounder of SocialBrain, a seed stage startup working on a novel new form of social planning and communication medium. I was heavily involved from the idea stage onward, working with my cofounder and a freelance visual designer to develop the idea into a specification, working up financial and team staffing plans, creating the large and small scale system designs, implementing the iOS application and server systems from the ground up.

Paytronix Systems, Inc. Jan 2002 — Feb 2015

In 2002, I joined Paytronix Systems: a Gift, Loyalty, and Messaging SaaS company currently based in Newton. From its early stages as a startup with less than 15 employees to 76 employees when I left, I was a key contributor in many roles: software architecture and development, hiring and training, production and office infrastructure, team growth, and introduction of new technologies and techniques.

- Led multi-year successful effort to convert from monolithic to service oriented server architecture, yielding major benefits in design scalability, testing, developer productivity, and external integration.
- Introduced automated testing, starting with outside-in functional web testing and continuing to service testing, transactional testing, unit testing and property-based testing.
- Kept the company up to date on new technologies and worked to keep the processes around software development current. Introduced Scala to the company and trained team in idiomatic use.
- Built out redundant network architecture including switches, routers, load balancers, and firewalls.
- Diagnosed and corrected numerous production issues, including complicated intermittent multi-system performance issues.
- Acted as a mentor for members of the development team both experienced and new, helping with design and implementation questions, diagnosis, and review.
- Participated in hiring process at a strategic level as well as interviewing candidates.

Additional Roles

2006 — 2007: Senior Network Architect at Swiftwill

2005 — 2006: Freelance network and software engineering

2001 — 2002: Senior Network Engineer at USDataCenters

1999: Technical Support at Bryley Systems