Dave Rostron

Looking for opportunities to apply imagination, tenacity, and disciplined technical aptitude towards crafting innovative and profitable customer focused solutions.

Engineer	2013 – present
Janrain	Portland, OR

Responsible for design, development, and deployment of high availability business critical AWS based systems from social profile management through data platform services.

Engineer	2009 – 2013
ClearAccess (aquired by Cisco)	Portland, OR

Participated in all aspects of the design and implementation of a telecommunications device management platform that leads the market in customization while meeting the strict scale and deployment requirements of tier one service providers.

Graduate Research Assistant	2007 – 2008
Computer Science Department, Colorado State University	Fort Collins, CO

Developed and published a new efficient method of computation and memory space mapping for scientific modeling applications.

Worked with high performance computing group on parallel computing optimizations used in a winning proposal for a National Science Foundation career grant.

Graduate Teaching Assistant	2007
Computer Science Department, Colorado State University	Fort Collins, CO

Assisted with teaching, assignments, and projects for senior level compiler course.

Engineering Intern	2005-2006
Hewlett-Packard	Fort Collins, CO

Led cost reducing initiatives including automating freight carrier reconnaissance processes and localizing test resources saving thousands per year.

Authored test plans, built test automation, wrote technical documentation and implemented bug fixes for the HP-UX operating system.

Presentations

Generic N-Dim R-Tree Explorations at Scala Symposium 2015 [slides] [repo]

Community

PDXScala : co-organizer and occasional speaker

PNWScala : co-organizer

OSCON : TA for Scala workshop last 2 years

Janrain Lunch Reading Group : organizer

Ongoing education

Conference attendance

LambdaConf, Strange Loop, PNWScala, OSCON, OSBridge

MOOCs

Intro to AI — Sebastian Thrun and Peter Norvig, Machine Learning — Andrew Ing, Intro to Data Science — Bill Howe, Scalable Machine Learning — Ameet Talwalkar

Languages, Technologies, Methodologies

Professional software design and development experience with:

Scala, Java, JavaScript, Python, Spray, Spark, Akka, Scalaz, Shapeless, AWS, Ansible, Puppet, Vagrant, Tableau, Spring, OSGi, Hibernate, Agile/Scrum, Git, Subversion, REST, XML, JSON, SOAP, JMS, JNI, Rhino, PostgreSQL, Redshift, MySQL, Neo4j, ZooKeeper, Redis, MongoDB, Docker, ActiveMQ, SBT, Maven, SOA, DI, AOP, TDD, networking protocols, various flavors of Unix

Academic or hobby project experience with:

Haskell, Clojure, Lisp, C, C++, F#, OCaml, VB.NET, Scalding, Play, Spire, Riak, Cassandra, OpenGL, OpenMP, MPI, QT

Education

Graduate work in Computer Science Colorado State University, 2007-2008
Bachelor's Degree in Computer Science Colorado State University, 2002-2006

Publications

"Smashing: Folding Space to Tile Through Time"
Nissa Osheim, Michelle Mills Strout, David Rostron, and Sanjay Rajopadhye

"Multi-level Tiling: m for the Price of One"
Daegon Kim, Lakshminarayanan Renganarayana, Dave Rostron, Sanjay Rajopadhye, and Michelle Mills Strout

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