Dave Rostron

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

Engineer, SlamData   2015 — present

Developer on all aspects of SlamData's backend including the Quasar SQL² compiler, Couchbase and MongoDB connectors, authorization layer, web services, and build automation.

Engineer, Janrain   2013 — 2015

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

Engineer, ClearAccess (aquired by Cisco)   2009 — 2013

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, CS Dept, Colorado State University   2007 — 2008

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, CS Dept, Colorado State University   2007

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

Engineering Intern, Hewlett-Packard   2005 — 2006

Led cost reducing initiatives including automating freight carrier reconnaissance processes and localizing test resources.

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]

SlamData Internal Tech Talks

Particle Swarm Optimization [slides]

Making sense of Probabilistic Programming with Figaro and Pfennig [notes]

Continuing the Probabilistic Programing explorations with Hakaru10 [slides]

Community

PDXScala : co-organizer and occasional speaker

PNWScala : co-organizer

OSCON : TA for Scala workshops

Janrain Lunch Reading Group : organizer

Ongoing education

Conference attendance

LambdaConf, Strange Loop, PNWScala, OSCON, OSBridge

MOOCs

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

Education

Graduate work in CS, Colorado State University   2007 — 2008
Bachelor's Degree in CS, Colorado State University   2002 — 2006

Publications

"Smashing: Folding Space to Tile Through Time"
Nissa Osheim, Michelle Mills Strout, Dave 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

Languages, Technologies, Methodologies

Professional experience

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

Academic or hobby experience

Haskell, Purescript, Clojure, Lisp, C, C++, F#, OCaml, VB.NET, Nix, Cats, Scalding, Cassandra, OpenGL, OpenMP, MPI, QT

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