DANIEL RUSSO

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SUMMARY

I am a software developer with experience and interest in domains: **large scale analytics pipelines**, and **backend web services and applications**.

TECHNOLOGIES

Languages	· Python, JavaScript, Java, Ruby, Clojure, R
Backend	· Django, MySQL, Hadoop, Spark, Redis, Chef, AWS, Kafka, Beanstalk, Celery
Frontend	· HTML5, CSS, React, Redux
Tools	· Git/Github, Emacs, JIRA, Linux

EXPERIENCE (SELECT)

Polar
Software Developer — 2011 to Present
Development Lead — 2018 to Present

- Senior software developer and development lead (non-managerial) of the core development team
- Build advertising technologies for many of the world's largest, premium publishers
- Contribute to the architecture and implementation of the full application stack, including:
  - Analytics ETL and reporting platform
    - Built with Spark on the Hadoop stack (HDFS and YARN)
    - Primary developer, designer, and maintainer of the analytics platform
    - Recently led the redesign and rebuild with Spark; it handles hundreds of millions of events per day
    - Designed with emphasis on durability, fault tolerance, and testability
  - Web applications, web APIs, and backend services
    - Built primarily with Django, MySQL, and Redis; UI is built with React/Redux
    - Recently led the design and implementation of an ad server distributed across multiple AWS zones
  - Infrastructure configuration and deployment
    - Built with Chef, managing config/deployments on Polar's infrastructure
- Review and provide feedback on the team's designs, plans, and implementations
- Ensure the team is communicating status, risks, and issues, while addressing their blockers whenever possible
- Handle application-level (non-ops) production issues
- Assist the engineering manager with hiring for development and QA roles

Xerox Research Centre of Canada
Co-op Materials R&D Research Assistant — 2007 to 2008 (8 months)

- Worked with scientists and engineers designing toner materials for Xerox's flagship printing presses
- Wrote LabView machine control software for a toner performance testing device emulating real-world conditions

EDUCATION

University of Waterloo (Canada)
Nanotechnology Engineering, Bachelor of Applied Science (B.A.Sc.) — 2005 to 2010

- Cumulative Average: 85%
- Publications:
  - D. Russo, M. Burek, R. Iutzi, J. Mracek, T. Hesjedal, "Design and development of an electronic nose sensing platform for undergraduate education in nanotechnology" European Journal of Physics, 32 (3), 675-686, (2011).
  - D. Russo, R. Fagan, T. Hesjedal, "An Undergraduate Nanotechnology Engineering Laboratory Course on Atomic Force Microscopy" IEEE Transactions on Education, Vol. 54, No. 3, 428-441 (2011).