Dan Boxler
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Professional Summary

Highly motivated technical lead driving software architecture and design for full-stack solutions. Team leader and mentor emphasizing agile design principles and test-driven development. Passionate about data analytics/aggregation, DevOps, machine learning, functional programming, and anything in a container.

Education

- **University of Colorado** — Colorado Springs, CO
  Master of Science in Computer Science — *Jan. 2016 – May 2020*
  GPA: 3.98

- **Colorado State University** — Fort Collins, CO
  Bachelor of Science in Computer Science — *Aug. 2010 – May 2015*
  Bachelor of Science in Business Administration — *GPA: 3.83 Cum Laude*

Experience

- **NETSCOUT Systems** — Colorado Springs, CO
  Software Engineer III — *Jul. 2015 - Present*

  Technical lead on an agile scrum team focusing on back-end architectural design and development.

  - **nGeniusPULSE**:
    - **High Availability**: Designed and implemented high availability solution using database replication and failover strategies
    - **Inventory APIs**: User friendly HTTP API leveraging MongoDB On-Demand materialized views
    - **Authentication**: Transparent token-based authentication service using NGINX and MongoDB
  - **Handheld Network Tools**:
    - **Android**: Android UI development for a custom handheld network analysis tablet running a modified version of the Android Open Source Project
    - **Embedded**: Embedded software development on various handheld network analysis devices using C++ and QT

- **VISA** — Highlands Ranch, CO
  Software Engineering Intern — *Jun. 2013 - Aug. 2013, May 2014 - Aug. 2014*

  - **VisaNet Integrated Payment (VIP) system**: Developed software under the IBM z/TPF (Transaction Processing Facility) operating system using IPM 370 z/architacture HLASM (High Level Assembler)

Projects

- **Machine Learning Techniques Applied to Musical Genre Recognition**: Research Thesis applying Deep Neural Networks and Gradient Boosting Machines to the task of content-based classification of music in to genres. Designed and evaluated several models using Deep Neural Networks and Gradient Boosting Machines, using various transformations of the raw audio for predicting the genre of a particular piece of music. In particular, adapting the natural taxonomy of musical genres to generate a machine learning model in an attempt to capture some of the natural hierarchy in music.
- **Static Taint Analysis Tools to Detect Information Flows**: An objective comparison of several Android taint analysis tools that detect information flows in Android applications. SERP'18

Programming Skills

- **Languages**: Java, Python, Kotlin, C++, Javascript, Scala
- **Technologies**: MongoDB, Cassandra, Kafka, Android, Docker, Ansible