Jesse K. Yates

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github.com/jyates
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Open Source Contributions

Culvert — github.com/booz-allen-hamilton/culvert

Committer, Original Developer

- Implemented adapter for Accumulo
- Wrote integration testing utilities for all potential table and database adapters
- Fixed implementation of HBase adapter and wrote integration test
- Implemented server-side join

Accumulo — incubator.apache.org/accumulo/

Contributor, Government Trainer

- Updated how iterators are stored on scan time (ACCUMULO-80)
- Implemented a MockDeleter to help complete mock suite (ACCUMULO-3)
- Fixed BatchDeleter implementation in production at Department of Defense for 5+yrs (ACCUMULO-53)
- General cleanup of implementation (ACCUMULO-20, ACCUMULO-21)
- Moved Accumulo from testing with fully mocked instance onto production code (ACCUMULO-14)

HBase — http://hbase.apache.org/

Contributor

- Added traditional database Constraints as a top-level feature (HBASE- 4605)
- Improved testing workflow (HBASE-4559, HBASE-4454, HBASE-4561)
- Converted project into Maven modules (HBASE-4336)

Work Experience

Booz Allen Hamilton, Hanover, MD/Seattle, WA

Senior Consultant — October 2011 – Present

- Technical lead for cross-cloud platform and analytics based on next generation Big Data theory
- Develop and present training for Accumulo for the Department of Defense

Consultant — Sept. 2010 – Sept. 2011

- Technical lead for big data analytics framework development project for National Institute of Health
- One of the two original developers for the Culvert Secondary Indexing Framework
- One of the three core developers for an cross-cloud analytics framework for the Department of Defense
- One of seven official Accumulo trainers to teach the system architecture and usage
- Adapt cutting edge scalable technology to big data analytics and requirements

Cloud Intern — June – August 2009

- Learned and used Hadoop and cloud computing technologies to implement protein alignment using Smith-Waterman algorithm on approximately 59,000 protein sequences
- Frequently presented progress to team
- Personally conceived of project and organized development team

National Institute of Standards and Technology, Gaithersburg, MD

Summer Undergraduate Research Fellow — June– August 2007

- Implement the new flow-coater for the Polymers Division
- Used flow coater Pursue almost entirely independent research in gradient, thin-film polymer formation

Guest Researcher — June 2005 – June 2006

- Learned and used Laboratory Virtual Instrument Engineering Workbench (LabVIEW) to write software to facilitate the use of various scientific machines
- Employed developed software in the laboratory to help solve microfluidic, lab-on-a-chip research

Education

Johns Hopkins University, Baltimore, MD — Class of 2010

- Bachelor of Science, Computer Science and Chemical & Biomolecular Engineering
- GPA: 3.71, Dean's List (all semesters)

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Publications

- Co-author of "Culvert: A Robust Framework for Secondary Indexing of Structured and Unstructed Data" at Hadoop Summit 2011.
- Co-author of "Fuzztable: Distributed Matching Database" at Hadoop World 2010.
- Co-author of "Protein Alignment" at Hadoop World 2009.
- Co-authoring scientific research paper: "Raman Spectroscopic Monitoring of Droplet Polymerization in a Microfluidic Device" published in peer-review journal, *The Analyst*.
- Author and presenter of the NIST SURF 2007 Colloquium Presentation: "Characterization of Flow Coated Thin-Film Polymers"

Skills and Interests

- Big Data Technology Expertise
    - Hadoop, HBase, Avro, Culvert, Accumulo, Hive, Chef
    - Cloudera Certified Hadoop Developer
- Programming Languages
    - Java, Python, C, C++, MATLab, LabVIEW
- Android App Development
- Pending Top Secret security clearance
- Conversational German
- Placed in several national rock climbing competitions
- Ran the 2008 Washington D.C. Marine Corps Marathon