Kyle Oliveira

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kyleoliveira

Skills

- Programming work in **Java**, **Ruby**, **Perl**, and **Bash** scripting
- Recent web development using **Ruby on Rails**
- Database design using **MySQL**, **PostgreSQL**, and **Microsoft SQL Server**
- DevOps support with **Docker**, **Jenkins**, and **Puppet**

Experience

Software Engineer September 2017 to Present
Upserve San Francisco, CA

Implementing new features and bug fixes for Ruby on Rails applications that deliver core management tools and exceptional insights for restauranteurs. Planned and initiated transition to AWS CloudHSM for critical encryption services.

Software Engineer July 2016 to September 2017
Oportun, Inc., Redwood City, CA

Produced service-oriented architecture solutions to support loan accessibility for our clients. Refactored legacy systems to support RESTful protocols using Java and Spring.

Systems Administrator / Application Programmer September 2013 to July 2016
Community Platforms & Cloudification Services, Central IT, Cornell University, Ithaca, NY

Developed customizations and improvements of the Kuali Financial System (KFS) for Cornell stakeholders. Maintained servers and software deployments using industry-standard tools such as Jenkins and Puppet to support development operations and mission-critical systems. Assisted in current efforts to move Cornell infrastructure to Amazon Web Services. Led development of an automated functional test suite using Cucumber to validate capabilities of KFS.

Application Programmer October 2011 to September 2013
College of Veterinary Medicine, Cornell University, Ithaca, NY

Coordinated with faculty, staff and students to analyze canine genomic data. Produced flexible and complex Perl scripts to automate batch processing, facilitated genomic analyses and performed necessary transformations between text formats. Designed and developed our laboratory's website using Drupal to deliver information about our work to the public.

Computer Scientist (ESDP) April 2010 to September 2011
Naval Air Warfare Center Weapons Division (NAVAIR), China Lake, CA

Developed innovative software solutions for the warfighter during three 3-5 month rotations with assorted project teams. Converted a library of MATLAB functions to templated C++ functions. Produced a RESTful Java web service that integrated with backend programs and frontend UI to synchronize and control distributed databases. Ported legacy C++ applications to C# using Visual Studio .NET. Produced initial phase of an information management database using Apache Wicket and Microsoft SQL Server.

Education

Master of Engineering in Systems Engineering. Cornell University May 2016

- 3.61 GPA
- Developed an open-source automated brewery control system leveraging current Internet-of-Things technologies, Ruby on Rails, and 3-D printing
- Produced a Blockly-based web application for composing Arduino code as part of Facebook's Open Academy.

Bachelor of Science in Computer Science. University of California, Davis June 2009

- Minor in Contemporary Leadership
- 2.989 GPA

Publications

Hayward, J.J., Castelhano, M.G., Oliveira, K.C., Corey, E., Balkman, C., Baxter, T.L., Casal, M.L., Center, S.A., Fang, M., Garrison, S.J. and Kalla, S.E., 2016. Complex disease and phenotype mapping in the domestic dog. Nat Comm, 7.

Shannon, L.M., Boyko, R.H., Castelhano, M., Corey, E., Hayward, J.J., McLean, C., White, M.E., Said, M.A., Anita, B.A., Bondjengo, N.I. and Calero, J., 2015. Genetic structure in village dogs reveals a Central Asian domestication origin. PNAS, 112(44), pp.13639-13644.

Boyko, A.R., Brooks, S.A., Behan-Braman, A., Castelhano, M., Corey, E., Oliveira, K.C., Swinburne, J.E., Todhunter, R.J., Zhang, Z., Ainsworth, D.M. and Robinson, N.E., 2014. Genomic analysis establishes correlation between growth and laryngeal neuropathy in Thoroughbreds. BMC Genom, 15(1), p.259.

Auton, A., Li, Y.R., Kidd, J., Oliveira, K., Nadel, J., Holloway, J.K., Hayward, J.J., Cohen, P.E., Greally, J.M., Wang, J. and Bustamante, C.D., 2013. Genetic recombination is targeted towards gene promoter regions in dogs. PLoS Genet, 9(12), p.e1003984.