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| **KONSTANTINOS (DINO) LIOLIOS** | | | | |
|  | | Principal Engineer  Binwise  340 N. Civic Dr. #503, Walnut Creek, CA 94596  • Phone: +1-925-348-6943 • E-mail: [dinos.liolios@gmail.com](mailto:dinos.liolios@gmail.com) | | |
| **QUICK AND DIRTY** | | | | |
|  | I am full stack software engineer with 16 successful years of work experience in various IT roles. Currently I work in the beverage inventory management industry and I design and develop enterprise cloud platforms that scale horizontally. These platforms are comprised by components that often come with secure REST API layers and high user-experience web UIs. My expertise is in JAVA, Jersey, Spring, Cassandra, ActiveMQ/Camel, Lucene/SOLR, AngularJS and ReactJS. I am a firm believer of the Netflix core technologies and I often employ resilient architectures that leverage kafka, zookeeper, eureka, zuul, ribbon and monitored by AppDynamics. I enjoy UI development, because I have the visual pleasure of seeing my code morph into something but I also like applying enterprise patterns in large-scale back-end infrastructures. I am currently fascinated by server-side pre rendering using NodeJS and I am trying to find a secure way of incorporating Redux to the architectures mentioned above. I enjoy software development because I always liked solving problems and making things “easier”. I am a methodical person that prefers to think before acting instead of randomly trying until getting to a solution. In every place I have worked in the past, I have become the go-to guy and people value my “common” sense, my no-nonsense attitude and the ability to see the big picture. I am always happy and willing to help others and very good in prioritizing the right tasks in the available time and resources. | | | |
| **summary of qualifications** | | | | |
|  | * 16+ years of wearing many hats in the field of software engineering; experience as a software engineer, manager, researcher, data scientist, product manager, project manager and team/project leadership roles * Exceptional communications, leadership and organizational skills - ability to bring people to a common understanding & reach consensus * Deep Agile development expertise and strong experience with project management tools * Proven ability to manage projects of various size and complexity, of many concurrent features, very frequent releases, consistently delivering high-quality, on-time results * Motivated self-starter with a high attention to detail; flexible and adaptable to change; not afraid to learn new things * Interested in highly scalable elastic cloud technologies as well as in software team structure, workflow, process, tools and team dynamics to help manage rapid growth * Fluent in JAVA, C#, perl AWS, Oracle, T-SQL, AngularJS, Webpack, RequireJS, SASS, npm, Bower, Backbone/Marionette/Epoxy, ReactJS/Redux, maven, Puppet, Eclipse, Git, Spring, ASP.net, semantic querying, geospatial data, Jenkins, CodePipeline/CodeDeploy, S3, Zookeeper * Experienced with Scala, Play, Kafka, Cassandra, MongoDB, Elastic Search, Varnish, AWS ELB * Familiar with hadoop, mapreduce, spark | | | |
| **POSITIONS** | | | | |
|  | | Principal Engineer  Binwise, Engineering, San Francisco, CA | 2015-present | |
|  | | Senior Software Engineer II  MobiTV, User Data Management Group, Engineering, Emeryville, CA | 2013-2015 | |
|  | | Group Lead  Genome Biology Program, DOE Joint Genome Institute, Walnut Creek, CA | 2009 – 2013 | |
|  | | Senior Programmer  Dept of Medicine, University of Chicago, Chicago, Il | 2007 - 2009 | |
| IT Software Engineer 3  Dept of Pathology, Northwestern University, Chicago, IL | 2003 - 2007 | |
| Scientific Programmer  Integrated Genomics, Inc., Chicago, IL | 2001 - 2003 | |
| **Education** | | | | |
|  | | Certificate Program  IT Project Management, University of California, Berkeley | 2012 - 2013 | |
|  | | Master of Science  Computer Science, University of Chicago | 2007 – 2008 | |
| Bachelor of Science  Mathematics, Northwestern University | 2004 – 2006 | |
| **publications overview** | | | | |
|  | | * Referred Publications: 20 (3 science/2 nature) | * H-Factor: 19 | |
| * Google Links (“Liolios K.”): **21300** | * Google Scholar Articles: 2700 | |
| **Languages** | | | | |
|  | | * Greek | * Native speaker | |
| * English | * Fluent | |
|  | | * French | * Intermediate | |
| **notable PROJECTS** | | | | |
|  | | Genomes on line Database (GOLD)  <http://genomesonline.org>  Lead the development of the most respected genome project catalogue and assisted data curation by automating the gathering and import of genome project information | 2000 - 2013 | |
| **A. Work experience** | | | | |
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| **1.** | | **senior software engineer, mobitv - engineering** | 2013 - present | |
|  | | * Provide end-to-end mobile media solutions * Develop back-end platform components in an agile continuous integration environment employing technologies such as JAVA 6/8, Spring 3/4, maven, perforce, git/bitbucket, hiera/puppet, bamboo, tomcat, ActiveMQ, Camel, Jersey 1, SOLR 5, Cassandra/Astyanax, mysql, ORACLE, varnish, memcached, zookeeper, codahale, jmxtrans, icinga, ganglia, Netflix curator * Develop front-end modules in AngularJS , ReactJS, Polymer, JSP, jQuery, Jetspeed, Portlets, tiles * Apply open-source optimizations to legacy components such as zookeeper/curator service discovery, kafka logging, CXF code generation for strongly typed interfaces, spring bean overriding etc. * Participate in large-scale architecture decisions, document and implement new designs * Within the Agile framework of software development, collaborate with the product owners on feature definitions. * Work closely with Scrum Masters on sprint deliverables and project schedules. * Participate in bug scrubs, hardening sprints and provide technical guidance to the test teams to build manual and automated test suites. * Work closely with technical writers to ensure detailed product documents are maintained and served in an automated and secure manner to our clients. * Design product features and present them to engineering and other groups. * Work closely with product management to develop products. | | |
| **2.** | | **GROUP lead, DOE Joint GENOME institute – MIcrobial genomics program** | 2009 - 2013 | |
|  | | * Coordinate the data release and annotation for thousands human microbial reference genomes produced by a consortium of 4 major sequencing centers and many research groups around the world that are part of the NIH Human Microbiome Project * Develop and maintain a portal for metadata annotation for a universal catalog and monitoring system for private and public genome projects around the world supporting numerous major sequencing initiatives * Propose standards for universality of genome data and metadata formats and verify compliance of major data sets by developing tools * Advocate workflows, grids, clouds, and turn-key desktop solutions for the M5 initiative * Negotiate with scientific communities and resolve concept and definition conflicts for the creation of genomic and metagenomic controlled vocabularies and ontologies that can be widely accepted * Manage a 8-member team that is responsible for the capture, store and visualization of genome and metagenome metadata * Serve in the IT steering committee | | |
| **2.** | | **SENIOR PROGRAMMER, University of Chicago – Medicine** | 2007 – 2009 | |
|  | | * 3-tier and systems programming using technologies such as.NET Framework versions 1.2/ 2.0/4.0, Java, PHP, Perl, Oracle, SQL Server, Postgres, Ajax.NET, extJS, YUI, JSON, PL/SQL | | |
| **3.** | | **IT Software engineer 3, Northwestern university** | 2003 – 2007 | |
|  | | * Employed probability theory, statistics, pattern recognition neural network algorithms (as Monte Carlo simulations, Hidden Markov Models, Expectation Maximization) in malarial protein motif discovery responsible for sub-cellular localization * Researched on statistical analysis and modeling, clustering analysis such hierarchical clustering, self-organizing maps, multidimensional scaling such as principal component analysis for biological data | | |
| **4.** | | **Scientific programmer, integrated genomics, inc** | 2001 – 2003 | |
|  | | * Developed and maintained [ERGO](http://www.ergo-light.com), an internet-based system for gene annotation, comparative analysis of genomes and pathway predictions (Perl, CGI, postgresql) | | |
| **B. Publications (115 total, 5 first author, 2 in nature, 2 in science)** | | | | |
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| **1.** | | **Notable PUBLICATIONS:** | | |
|  | | 1. **Human Microbiome Project Consortium. A framework for human microbiome research.**   . 2012 Jun 13;486(7402):215-21. doi: 10.1038/nature11209. PubMed  PMID: 22699610; PubMed Central PMCID: PMC3377744.   1. **Human Microbiome Project Consortium. Structure, function and diversity of the healthy human microbiome.**   2012 Jun 13;486(7402):207-14. doi:10.1038/nature11234. PubMed PMID: 22699609.   1. **A catalog of reference genomes from the human microbiome.**   2010 May 21;328(5981):994-9. PubMed PMID: 20489017;   1. **A host-targeting signal in virulence proteins reveals a secretome in malarial infection.**   2004 Dec 10;306(5703):1934-7. | |  |

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| **d. References** | | |
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| **1.** | **Available upon request** |  |
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| **3.** |  |  |
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