# Kent Lee

ikenticus@gmail.com

508 Lake Circle, Robbinsville, New Jersey 08691   646.657.8559

## OVERVIEW

Over 25 years of technical experience in DevOps and Full Stack development analyzing, architecting, comprehending, migrating, and optimizing public-facing web-based systems. Recognized by executives, managers, peers, and subordinates for approachability, communication, motivation, and execution.

## PROFESSIONAL EXPERIENCE

**SENIOR BACKEND DEVELOPMENT LEAD** – NEW YORK CITY, NY                    Jan 2019 to Present
**GALLERY MEDIA GROUP (PUREWOW / ONE37PM)**

Hands-on lead of a small development team, architecting and implementing the content management systems, automated continuous integration pipeline, and data analytics ingestion into data warehouse. Improved both senior and junior engineering time-to-market by promoting and maintaining Kubernetes trunk-based deployment from CodeCommit branches and GitHub pull requests.

> **Notable achievements:**
> ➢ Architected JADE-HEN code-agnostic Continuous Integration and Deployment pipeline: Jenkins, AWS, Docker, Elastic Kubernetes Service using Helm3, ExternalDNS, NGINX Ingress. Replaces old CodePipeline and manual deployments for ReactJS, Drupal, WordPress, Prometheus, Grafana, RDS Backups, etc, while centralizing all cluster, pod, and application logs into CloudWatch.
> ➢ Implemented Canvas Backend framework using API Gateway, DynamoDB, Lambda, Redshift, and SES to manage and ingest analytics data from ever-expanding list of social media accounts like Facebook, Instagram, Twitter, Pinterest, and YouTube as well as handle business/vendor resources like Amazon Associates, Apple News, Art19, Boostr, MOAT, Advon, Narrativ, Google Ads/Analytics.
> ➢ Collected and analyzed S3 vendor data using Athena, AWS Glue, and AWS Data Pipelines.
> ➢ Built Canvas Reporting suite using SciKit/MatPlotLib with C3/D3 followed by Google Data Studio.
> ➢ Created custom WordPress plugin to centralize Gutenberg blocks and REST API in order to migrate Drupal Canvas Editor as well as proprietary Java Admin CMS onto VIP Go.
> ➢ Created Ansible playbook for Homebrew boostrapping of Engineering MacBooks.

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**TEAM LEAD / SENIOR INTEGRATION DEVELOPER** – NEW YORK CITY, NY          Feb 2012 to Dec 2018

**GANNETT PLATFORM ENGINEERING: API SERVICES** – *Jan 2018 to Dec 2018*

Lead developer migrating Sports API from AWS to GKE, deploying via Jenkins and helm charts; utilizing Hashicorp Consul and Vault to uphold state and security; and  optimizing performance with New Relic and Sumologic dashboards as well as Fastly  VCLs and surrogate-key caching. Contributed to Golang, Google DataStore, Google Pub/Sub, jsonschema, GraphQL and Terraform for API Services and Platform teams.

**GANNETT DIGITAL CONTENT SOLUTIONS: SPORTS INGESTION** – *Jan 2016 to Jan 2018*

Hands-on lead and architect of Sports API, the Platform-as-a-Service replacing legacy Microsoft .NET/C# with Node.js and Couchbase while integrating Scalr, Chef, TeamCity, RabbitMQ, Splunk, New Relic, DataDog, VictorOps, CloudFormation, and AWS services like S3 and Route53. Built the 2016 Rio Olympics API and 2016 Elections API while extending ingestor to handle AP/ODF JSON in addition to Sports XML.

**USA TODAY SPORTS MEDIA GROUP** – *Feb 2012 to Jan 2016*

Inherited and maintained legacy technologies while integrating acquired assets into the Sports portfolio. Hands-on lead and architect of the Sports section of the 30th Anniversary relaunch of  USATODAY.com, responsible for the NY team of UX, API, DB, and QA engineers while coordinating with the VA teams handling the other News sections. Technical WNPA representative for USATODAY during the 2014 Sochi Olympic Games and collaborated on the Olympic Data Format with other members of the IOC.

**Notable achievements:**
➢ Relaunched the Sports portion of the flagship site using Django, jQuery, Backbone, CSS/JS.
➢ Architected replacement for antiquated Perl ingestion system using Python/YAML and transitioned normalized SQLServer XML/XLST backend into denormalized JSON API Services.
➢ Planned and implemented roadmap for real-time sports ingestion and backend API Services while reviewing overseas development of Jameson native application for iOS, Android, and Windows10.
➢ Architected and maintained evolving database for MLB, NBA, NFL, NHL, NCAA as well as NASCAR and auto-racing, PGATour/Golf, ATP/WTA, MLS and Champions/Premier League.
➢ Planned and organized roadmap for transition of Sports XML/RDBMS to JSON/NoSQL.
➢ Built and maintained real-time data ingestion/presentation for 2016 Rio Olympics and beyond.
➢ Built WordPress VIP CMS tools for feed, editorial, and navigational input and updates.
➢ Managed and influenced Sports Direct Inc to expand their data feeds for the major sports.
➢ Migrated Flash/SWF/ActionScript presentations into HTML5/CSS3 interactive user interfaces.

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**TOOLS AND AUTOMATION ENGINEER** – New York City, NY                    Feb 2010 to Jan 2012
**GILT GROUPE**

Designed and maintained Zenoss monitoring system to simplify resource acquisition and replication, alert and event escalation, and dashboard presentations. Managed AWS instances via Chef. Managed and monitored Ashburn and Phoenix data centers as well as Amazon EC2 and Xen virtual instances. Contributed to configuration management, created during the migration from Joyent to Carpathia, and automated vendor integration, like Aster, Tripwire, Zeus into daily tools.

**Notable achievements:**
➢ Invented zenossYAMLtool to allocate, configure, and recover Zenoss using Python, YAML, TAL.
➢ Built the foundation of Mothership, our Configuration Management tool which integrated tools, like cobbler and puppet, to deploy Citrix XenServer, CentOS Dell baremetal servers and Virtual Machines, using Python, YAML, and PostgreSQL.

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**SENIOR SYSTEMS ADMINISTRATOR** – NEW YORK CITY, NY                    Oct 2001 to Feb 2010

**CBS INTERACTIVE –** *Oct 2001 to Feb 2010*

Architected most video projects and many core projects using CVS/CFEngine2 utilizing shared global environment variables. Administered corporate Akamai services including Netstorage, Edgesuite, Edge Computing, GTM, HTTP Caching and Streaming. Managed and mentored CBS subdivisions in web and video CDN best practices. Managed and monitored thePlatform Video CMS and Keynote services.

**CBS DIGITAL MEDIA GROUP –** *Mar 2005 to Nov 2006*

Consulted on various aspects of the CBS Audience Network, March Madness and other video-related projects. Replaced the antiquated MRTG with automated SOAP/XML/RRD graphing of SNMP and CIR. Created first video to ad banner syncing methodology utilizing DoubleClick DART rich media templates.

**CBS INFORMATION SERVICES AND TECHNOLOGY –** *Oct 2001 to Mar 2005*

Centralized all server control, monitoring, and remote access to a custom configuration management system. Architected distribution/redirection of streaming media to multiple CDNs minimizing bandwidth while maximizing CIR. Maintained and monitored loadbalancers, switches, firewalls, VPN creation/migration, and several hundred Linux/Apache and Solaris servers for CBS and InfinityRadio.

**Notable achievements:**
➢ Invented Master Host List, a BASH/Perl custom Configuration Management system to allow three Systems Administrators easily manage deploying and monitoring hundreds of servers via SSH.
➢ Managed all Akamai services for CBS, Showtime, InfinityRadio to reduce Professional Service costs
➢ Successfully managed 80/20 GB streaming media bandwidth for initial launch of March Madness waiting room architecture as well as for subsequent years with increasing bandwidth.

**VICE PRESIDENT, TECHNOLOGY** – NEW YORK CITY, NY                          Apr 2000 to Apr 2001
**MABOOL**

Oversaw many aspects of an early-stage internet startup company: external development solutions and partnerships, advising CEO, hiring, technical business plans and white papers, web design and copywriting.

**CHIEF TECHNOLOGIST** – NEW YORK CITY, NY                          Mar 1999 to Apr 2000
**INDULGE.COM** (FORMERLY **MYBASICS.COM**, SUBSEQUENTLY **VIVRE.COM**)

Managed both the IT and the Web Development team in the daily operations of a pre-IPO internet company. Evaluated platforms and new technologies, managed external application development and built out server co-locations, provided graphical/technical development support.

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**DIRECTOR, MULTIMEDIA PROGRAMMING AND PRODUCTION** – FORT LEE, NJ          Apr 1995 to Mar 1999

**NEXTVENUE** (FORMERLY **X-STREAM MEDIA,** SUBSEQUENTLY **I-BEAM**) – *DEC 1998 TO MAR 1999*

Facilitated changeover of NBC assets to a startup company by training the new company workforce in the broadcast video and IT infrastructure aspects while maintaining continued service to existing customers.

**CNBC/DOW JONES BUSINESS VIDEO** (**MSNBC BUSINESS / NBC DESKTOP VIDEO**) – *APR 1995 TO DEC 1998*

Created and managed co-branded site pages, live webcasts, on-demand conferences, and secure IPO road show presentations. Coordinated online news production between editorial, creative, and tech teams. Collaborated and influenced streaming pioneers Progressive Networks and Vxtreme prior to their evolution into RealNetworks and Microsoft NetShow, respectively.

**NBC INTERACTIVE –** *Dec 1995 to Oct 1996*

Supported Windows NT and Cisco routers for NBC Interactive in addition to NBC Desktop Video. Managed Sun web servers for 1996 Olympics and demonstrations for 1996 NATPE: NBC.com, Desktop, Intercast.

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**ENGINEER, NETWORK CONSULTANT** – NEW YORK CITY, NY                          May 1994 to Apr 1995
**NATIONAL VIDEO INDUSTRIES**

Maintained and cleaned various sized video tape recorders, switches, and graphics equipment for an all services post-production house. Supported NetWare and DaVinci email metropolitan area network.

# Professional Skills

In addition to the technical skills listed in the professional experiences above, intangible skills consist of:
➢ Agnostic Polyglot: Current daily staple is BASH, Python, Node,js, but have ability to comprehend and refactor in languages unfamiliar, and have readily picked up unknown languages as needed, contributing code in Go, C#, C++, Java, Ruby, MSAccess, and even ActionScript
➢ Interpersonal Skills: Ability to cooperate with personnel of various technical levels, such as extracting the necessary components from experts, working with peers, presenting brown bags, or explaining jargon to the technically illiterate through analogies

# Education

Bachelor of Science in Electrical Engineering, Albert Nerken School of Engineering          May 1995
The Cooper Union for the Advancement of Science and Art, New York, NY

# Personal Activities

Hobbies include playing with my SmartHome.  Physically enjoy skating and skiing.  Mentally appreciate brainteasers, mind puzzles, jigsaws and trivia.  Overall passion for cooking and sharing knowledge.