

Yann YU

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OBJECTIVE

Software Engineer with advanced technical skills & experience using modern Python to improve systems & operations automation of thriving business for commercial success

SUMMARY

- Nineteen years of professional experience as Python Engineer, Flask & REST API, Django Developer since 2011; Software Architect, Web Services API developer, Web Architect, Lead Business Application Developer, Project Manager, Lead J2EE Developer, Mobile Solution Developer, Lead WebLogic Developer, EJB Developer, Programmer, System Analyst, and Software Designer

- Skilled in software design & engineering, domain process analysis, systems integration, automated testing, technical support & troubleshoot, system security, systems analysis & design documentation, program management, database administration

- Exceptional in innovative technical solutions for a variety of industries such as Media & Entertainment (NBCUniversal, Turner, SONY, Disney, Universal), Mobility Services (Stratix), Retail (Home Depot), Airline, e-Business (Wells Fargo, TSYS), Research and Development (ISI), Financial (Citi, CHASE), Government Contractor, Medical (MSRG), and Public Utility (Semptra)

- Excellent in defining the scope of work by gathering user requirements, clarifying concepts and ideas, and then formulating them into visual layouts, use cases, wire frames, flowchart models & other tangible artifacts, and finally completing system specifications

- Leadership skills include the know-how to guide project and influence team members from a variety of backgrounds, creative problem-solving and solution-oriented work style, clear decision-making, and in-depth proficiency with new technology trends; to improve quality and enhance project agility, by keeping close communication with the clients and by applying tools and techniques, such as continuous integration, unit test, pair programming, test-driven development, design patterns, domain-driven design, and well-understood frameworks

- Highly-developed communication skills demonstrated through fluency in multiple languages, extensive international travel, documented writing and editing talents, ability to work well both independently and as a member of a team, developing effective client relations, providing superior client service and satisfaction

TECHNICAL SKILLS

Programming: Python, Flask, Django; Celery; SQLAlchemy, Ming ODM, TDD, iPython Notebook; Redis, RabbitMQ; locust; JIRA, Rally/CA, Confluence; PHP3 & PHP5; Spring Boot, J2EE, Java, EJB, Java Batch, JMeter, JProfiler; WebLogic 4.5/5.1/6.0/6.1/7.0/8.0/8.1/12c, JBoss 4/5, Tomcat 5/6/7, SOA, ESB, IBM WebSphere MQ, ActiveMQ, HornetQ JMS; RMI, JNDI, Servlet, JSP/STRUTS & STRUTS 2, SpringMVC, FreeMarker, Dynamic Jasper & iReport; JPA, Hibernate, JDBC, DAO; Maven, Gradle, Ant; git, GitHub, svn; Eclipse, IntelliJ; Continuous Integration Bamboo, TeamCity, Jenkins; C++, C; ASP & Visual Basic 5.0/6.0; 4th Dimension;
Operating System: UNIX/Solaris, Debian & Red Hat Linux; Macintosh OS; Windows 7 & 10 Enterprise, Windows Server 4.0/2003/2008, Windows Workstation 4.0/95/98/2000/XP

Internet/Cloud: Docker, Docker-Compose; JSON, XML, JavaScript, HTML5 & CSS3, AngularJS, Bootstrap, Node.js, MEAN Stack, jQuery, Ajax; Vagrant & VirtualBox; Flask & Eve, Django, Rails; Apache/JServ, Resin, Sun/Netscape iPlanet Server, iPlanet Portal, LDAP; IIS/PWS ASP, Visual InterDev 6.0, ADO, MTS, IIS, COM/DCOM, XML/XSL, PHP, Perl/CGI

Database: MongoDB, CouchDB; PostgreSQL, Oracle 8i/9i/10g/11g, MySQL, Apache Derby, Sybase, DB2, PeopleSoft, MS SQL Server 6.5/7.0, MS Access 97, 4th Dimension

PROGRAMMING EXPERIENCE**Senior Software Engineer, August 2016 - Present****Company Confidential, Atlanta, Georgia**

ReviQ – pinpoint intelligence for the benefits of healthcare providers and patients

- COBIQ port from Python2 to Python3, unified data processing pipeline, work-flows management
- AutoIntel ETL batch & parallel processing & REST API with Python, PostgreSQL

Software Solution Engineer, February 2015 - August 2016**NBCUniversal Digital Products & Interactive Media, Universal City, California**

CNBC Audience Identity – provide identity management & subscription services to various brands & business clients within the NBCUniversal family

- IDX REST API with Python, Flask, Blueprints, Docker & MongoDB
- IDX 2.0 REST API with Java Spring Boot & MongoDB

Senior Solution Engineer, July 2014 - January 2015**Stratix Corporation, Atlanta, Georgia**

itrac360 – Managed Mobility Services Software

mobile enterprise platform, deliver tracking information across all phases of the mobile-asset management life-cycle: procurement, provisioning, activation, repair, support, security, and expense management

- redesign: KPI's, analyze mobile spending & aggregate data points using Python
- data visualized: fusion charts, ipython notebook; MongoDB, Mongo Aggregate & GridFS, Oracle, MySQL; Spring Data Mongo Template

Senior Web Engineer, July 2013 - July 2014**Deutsche Post DHL Global Mail, Atlanta, Georgia**

NewOPS & Web Portal e-commerce Platform, API to USPS

full cycle logistic management system - sorting flats & parcels, encoding, label, tag & barcode, transportation, shipment, tracking, and notifying

- REST API Web Services: Python, JSON & XML
- J2EE: Spring, STRUTS2, Java Swing & Web Start, Maven, Gradle, Jenkins, Hibernate and Oracle

Practical Java Web Architect, May 2012 - June 2013**Spiral Net Solutions, Atlanta, Georgia**

*Merchandising IT of **The Home Depot Store Support Center** – Enterprise Master Data*

Forward Bridge Solution (SkuStoreRepository) to automate market to store level pricing updates

- THD enterprise Java Batch, JMS, & DAO frameworks, selectors, and contracts
- Prototyping with Python, Apache Hadoop MapReduce, Cassandra & 10gen MongoDB

*Global e-commerce Guest Booking for **InterContinental Hotels Group** – Rich Internet User*

Experience through pragmatic application of new generation Web audience enabling technology

- Hotel name brand marketing campaign through social media
- Automated Hotel Content Feeds B2B Service API design and prototype using Python
- Hotel Ratings & Guest Reviews Web services integration with BazaarVoice using Ruby

*Modernized outdated point-to-point services accumulated over time to Enterprise Service Bus architecture for **Bridge2Solutions Inc***

- User Account RESTful Web Service API: design, and prototyping with Python
- SOA optimization & performance tuning in Mule Enterprise and ActiveMQ

Senior Lead Software Developer, March 2011 - April 2012**CNN Digital Media at Turner Broadcasting System Inc, Atlanta, Georgia**

Developed award-winning mobile and web products for CNN, CNN Money, digital properties

- Development of a portfolio of digital products including CNN.com, CNN Video Experience, CNN Money.com, & CNN iReport for mobile devices: iPhone, Android, and Win7Phone, and iPad & Android Tablet using Python & Django
- Data Visualization, NewsPulse & Mobile Data Services for AMPT using Python & Django
- CMS3 - the working name for Turner's next generation enterprise content management system; built the architecture, design, implementation, and testing of a brand new content management system from scratch, using SpringMVC, JPA & Hibernate, CouchDB

J2EE Solution Developer, July 2009 - February 2011**Owens Group International, Atlanta, Georgia**

Built Custom Business Intelligence Solutions for leading airlines

- NetTracer Management Solutions Suite: created highly functional custom solutions & business intelligence tools that resulted measurable improved effectiveness

Project Manager & Business Application Developer, January 2008 - July 2009**Spiral Net Solutions, Atlanta, Georgia**

Built Custom Pricing Solutions to make transition from outdated client-server technologies to scalable and cost-effective Web browser based applications

- United Franchise Group: analyzed outdated databases and isolated programs; managed and developed streamlined and highly functional custom solutions that resulted in substantial increase in revenue

Senior Software Engineer, February 2007 - January 2008**EdgeNet, Atlanta, Georgia**

Built Custom Business Solutions for major Home Improvement Corporations, such as The Home Depot and LOWE'S, using J2EE/J2SE, JSP/Servlet, POJO, WebLogic SOA, XML feed parser, Sybase, and MS SQL Server to enable custom online marketing processes with less overhead, more scalable and efficient systems

- Created DBCatalog, SKU, and Pricing/Bucketing Service Components with the new database & XML feed implementation

Senior Software Engineer, September 2006 - January 2007**CBeyond Communications, Marietta, Georgia**

Built Custom Business Solutions using J2EE/J2SE, JSP/Servlet, WebLogic, SOA, & Oracle to enable online access to invoice & billing information with less overhead, more scalable, and more efficient systems

- Rewrote the checkfree system to replace obsolete Statement Object with the new Oracle Database & XML implementation ; rebuilt the invoice Loader application with innovative dual processing architecture, which dramatically cut down the required invoice batch processing time by 48%

Project Manager & Lead Web Application Developer, May 2006 - September 2006**Spiral Net Solutions, Atlanta, Georgia**

Built Custom Business Solutions to make transition from outdated client-server technologies to highly functional, streamlined, and cost-effective Web services

- Tanglewood Conservatories LLC: analyzed outdated and isolated databases; led and developed streamlined and highly functional custom Web services that resulted in 45% increase in clientèle base

Senior Technology Specialist, January 2006 - April 2006**UPS Supply Chain Solutions, Alpharetta, Georgia**

Provide architectural initiatives to make transition from older WebLogic technologies to more current, scalable, and more efficient systems, including WebLogic SOA

- Evaluated the existing Rapid Transportation Management (RTM) system; identified areas in the architecture and design where it failed to support substantial increase in user volume and heavier workload
- Developed strategy for the next generation Order Management System (OMS), using J2EE, Hibernate, Oracle, WebLogic clustering, and hardware clustering which resulted in a reliable and sustainable system, capable of effectively handling 10 - 30 times more workload than before

Project Manager & Lead Web Application Developer, April 2005 - January 2006**Spiral Net Solutions, Atlanta, Georgia**

Built Custom Web Based Database Solutions for real estate sales, using PHP & MySQL

- Metropolitan Living Inc.: brought company's marketing system up-to-date by designing and creating Web based search-able database programs that effectively increased their product sales by 34% in 6 months
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Application Architect & Lead J2EE Developer, September 2004 - April 2005**Regulus Group LLC, Atlanta, Georgia**

Architect and Team Leader for the full development life cycle of iView! Online Custom e-Bill Pay Solutions for clients such as Wells Fargo and Reliant Energy

- Evaluated antiquated ASP and Perl systems; prepared complete, precise, and accurate architecture blueprint using Oracle 10g Application Server & 9i Database, J2EE, J2SE, EJB, STRUTS, and DAO; resulted in 25% reduction in design flaws and shortened new clients deployment time from several weeks to a few hours
- Filled in communication gap between separate development teams by implementing timely and consistent communication system
- Responsible for reporting timely and consistent project updates to key management

WebLogic Application Architect & J2EE Developer, May 2004 - September 2004**Total Systems - TSYS, Columbus, Georgia**

Architect and Team Leader for the full development life cycle of the new Electronic Payment Processing Solutions for Circuit City, FNANB, AMEX and RBSG

- Converted Java Servlet application running in obsolete WebLogic 5.1 environment with deficiency in security into J2EE, EJB, STRUTS, and Oracle 9i system deployed in WebLogic 8.0. The result was an exponential increase of customer utilization
Functioned as a communication liaison between system architect, developers, DBA, key management, and customer representatives
- Translated highly technical terminologies and abstract situations conveyed by development teams into visual concepts that business management could easily understand and use for tracking progress of projects which increased the effectiveness of project management

Architect & Lead Web Application Developer, November 2003 - May 2004**Mid-South Housing Solutions, Memphis, Tennessee**

Architect and Project Manager for the creation, testing, and deployment of GotHome4U.net Web Business Solutions to support Real Estate business processes and administrative functions using Apache, PHP, and MySQL running in LINUX Enterprise Server

- Expanded company's marketing system by designing and creating Web based search-able database software that generated an increase in sales by 41% in one quarter

Architect & Lead J2EE Developer, May 2003 - October 2003**Disney Consumer Products, Burbank, California**

Architect and Team Leader for the full development life cycle of International Rollout Franchise Enterprise Solutions to support business and administrative functions and processes

- Evaluated legacy systems and transformed them into scalable J2EE solutions using STRUTS, JSP, JDBC/DAO, and business objects, along with GoPublish, JRun Enterprise Server, LDAP, SQL Server 2000 and IBM WebSphere, which facilitated instant business growth from limited domestic markets to worldwide global markets
Used UML to define user requirements, use cases, and interaction diagram
- Created streamlined action guide for future developers to quickly grasp the original design, to make enhancements and to build additional features

Architect & Lead J2EE Developer, July 2002 - March 2003**Information Sciences Institute, Marina del Rey, California**

Built MyPortal enterprise solutions to support business processes and administrative functions, using J2EE, Servlet, JSP, MVC framework, BEA WebLogic 6.1, iPlanet Server, LDAP, Oracle 8i and Sybase ASE 12.5.

- Developed Account Status Report Integration System (ASR) - an EIS integration system using MitemView, Mitem Interface, and Kronos Enterprise Scheduler; implemented New Hire Process framework using Business Process Execution Language for Web Services (BPEL4WS) with Collaxa, Oracle, BEA WebLogic Server, and LDAP
 - Orchestrated an automated process that captured accounting data from mainframes in spreadsheet format; then stored the data into a structured relational database while maintaining the data integrity; this enabled accurate reporting, trend analysis and projection for business planning and forecasting
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Architect & Lead Java Developer, December 2001 - June 2002**SONY Pictures Entertainment, Culver City, California**

Built enterprise business applications using Java servlet/JSP, MVC framework, BEA WebLogic 6.0, and Sybase

- Instrumental in developing International Human Resource System (IHRS) – an Internet system with high flexibility to change, which effectively and accurately tracks company employees working overseas and business partners in six international territories; this system improved the quality of overseas employee management and international partners relation/communication

Web Application Developer, October 2001 - December 2001**Ponce de Leon & Associates, Los Angeles, California**

Built a set of database management related reusable components with MS .NET

Developed Training Management System using ASP/MS SQL Server

- Replaced obsolete programs with latest B2B enterprise applications using IIS, MS SQL Server, ASP/VB, XML, .NET; this resulted in high flexibility to change in customer demand and time-to-market decreased by six weeks

Sr. EJB Software Developer, August 2001 - October 2001**Sempra Energy, Los Angeles, California**

Built enterprise business applications using Java servlet/JSP, EJB, Sybase, BEA WebLogic

- Created reporting tool for GasSelect – an Energy related trading, allocation, storage, production scheduling and management system built upon J2EE architecture; this provided an efficient way for key management to speed up business planning and decision making process by 22%

Sr. Programmer Analyst, November 1999 - July 2001**Universal Studios Music Group, Universal City, California**

Built Milestone Version 1.0 & 2.0 - two independent Web-based enterprise business applications using J2EE best practice and MVC framework, Java servlet/JSP, EJB 1.0/1.1, SQL Server 7.0, BEA WebLogic 5.1.0, Sun/Netscape iPlanet Server, Jbuilder3.3 IDE, and JavaScript, HTML/DHTML, CSS

- Developed Web-based music production scheduling and management systems that allows various entities and stakeholders to track the progress of a release item through different stages of its "life cycle"; by adopting Milestone version 1.0, music production delays directly related to scheduling errors was reduced by 50%; with improved J2EE architecture and framework, the full development life cycle for version 2.0 was shortened by 25% and the new version 2.0 was dramatically more extensible and maintainable

Sr. Programmer/Analyst, February 1999 - November 1999**Cook Systems International, Memphis, Tennessee**

Created On Line Application Development (OLAD) Code Library: reusable components

Harmony Information Services: Safety Health Environment - SHE Training Program

Rescue Rooter: Weekly OPI Report tracking gross revenue, net sales, expenses, and net profit;

Monthly Operational Report (MOR); Fleet Services

Inventory Locator Service (ILS): Marine project; Phoenix (Aviation) project

Archer Malmo: Samsung Project

- Built Web-based Intranet applications using ASP, SQL Server/Access, and JavaScript, HTML/DHTML, CSS, resulted in shorter deployment timeframe and improved business communication and content sharing within well-defined groups
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PROFESSIONAL TRAININGS

2016 - "Practical Python Programming", David Beazley, Dabeaz, LLC
2015 - "Flask - Web Development with Python", Miguel Grinberg, O'Reilly Media
2015 - "Test-Driven Development (TDD)", Harry J.W. Percival, O'Reilly Media
2015 - "Secure Coding Techniques", Ken van Wyk, Comcast & NBCUniversal
2014 - "DevNexus", The professional developer conference, Atlanta Java Users Group
2012 - "MongoDB & Python for Operational Intelligence", Rick Copeland, Arborian Consulting
2005 - "Oracle Application Development Framework", Oracle
2004 - "J2EE Applications Development using Oracle 10g Suite & Jdeveloper", Oracle
2003 - "Introducing PHP", David Powers
2000 - "Developing Enterprise Applications with BEA WebLogic Server", BEA Systems, Inc.
1998 - "Achievement for Web Design and Web Course Management Systems", Syllabus Press
1996 - "4th Dimension Programming", APPLE Computer, Inc.

LANGUAGES

English, Mandarin Chinese, French

EDUCATION**Oklahoma State University**

M.S. in Applied Mathematics, 1993

Tianjin University, Tianjin, China

B.A. in Physics, 1988