

**EXPERIENCED SOFTWARE ENGINEER**

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- Polyglot developer with hands-on knowledge in: Java, Rust, Python, Ruby, Node/Javascript, Elixir, Bash and SQL
- Worked with several persistence solutions and caching: Postgres, MySQL, Oracle, MongoDB, Redis, Hadoop and Blockchains
- Exposed and responsible for various environments & tooling: Linux, AWS, Kubernetes/Docker, Terraform/IaC, Nginx, Android & iOS, Git, CI/CD, Client/Server
- Areas of interests include, but not limited to: secure, resilient & robust systems, modular & maintainable code, automation and cryptography

**EXPERIENCE**

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**Senior Software Engineer at Cars.com Inc --- May 2019 to Present**

- Designed and implemented Kafka client Producers and Consumer Groups, with Schema Registry caching, to push and consume Avro encoded messages
- Built a fully automated temporally provisioned AWS environment, Route53, ELB, EC2 and RDS, for isolated developer branches using aws-cli
- Implemented ad viewability analytics tracking based on Google's definition using JS IntersectionObserver on our most viewed search results page
- Implemented various application level features that included, but not limited to, API consumption, caching, geo location, and data migrations
- Maintained existing Kubernetes and Docker containerized deployments, load test automation and environment upgrades
- Conducted candidate interviewing and help mentor junior developers in AWS, Linux and programming fundamentals

**Senior Software Engineer at RoomIT by CWT --- April 2018 to May 2019**

- Team Lead for a corporate startup responsible for architecture, technical mentorship, and code quality of back-end proxy, Rest API and ETL framework
- Troubleshoot and improve Apache Flume distributed processes, improve existing Ansible playbooks and instrument services with New Relic APM
- Rewrote ETL batch process to dynamically handle multiple jobs, allow configurable multi-threading at runtime and exception handling to avoid full restarts
- Identify concurrency issues, exception handling, fault-recovery, improved logging, large code refactoring and share knowledge with our team
- Work with architects to scale and add redundancies to Redis for data ingestion from data science Hadoop cluster and reads from our real-time engine service

**Senior Platform Engineer at Gamut Supply LLC --- September 2017 to April 2018**

- Senior Infrastructure Engineer for corporate startup responsible for all AWS hosted services, virtual devices, network and upgrades
- Implemented PCI firewall rules on AWS hosted servers that stored or transmitted customer card holder data
- Wrote AWS Lambda jobs in Python and NodeJS to monitor EC2 and nightly snapshots of RDS and Elasticsearch indexes

**VP of Engineering at Realync Corp --- December 2016 to August 2017**

- Head of Engineering for a startup responsible for the direction, success and growth of our mobile video real estate platform
- Established a transparent and collaborative environment between business and engineering department to create a one-team mentality
- Leading a team on development, architecture decisions, security and deployments using NodeJS, ReactJS, Rails and AWS
- Lead staffing, hiring and recruiting efforts to expand the engineering team in order to deliver on product goals and features for our platform
- Implemented server-side OAuth using Google API Client libraries to allow users to upload video content to YouTube

**Independent Consultant at Devix Group --- November 2014 to December 2016**

- Lead a core team responsible for development of consumer facing lending product implemented in Ruby on Rails [Fintech]
- Built Android prototype app, implemented HMAC for requests and responsible for maintaining and extending company mobile API [Fintech]
- Mentored junior team members through code reviews, 1-on-1 discussions and took the initiative to pair program with junior developers [Fintech]
- C2C contract as a senior consultant with large hospitality company to join their E-commerce development team [Hospitality]
- Designed and implemented HMAC SHA-256 RESTful API for 3<sup>rd</sup> party vendors to build on top of internal legacy systems [Hospitality]
- Worked with solution architect to implemented back-end service to more efficiently push analytics data to Adobe's Marketing Cloud [Hospitality]
- Worked with small team to implement new customer features for enhancing the site's main revenue generating stream [Hospitality]
- Individual contributor with a health-care startup to help build their front-end platform using AngularJS [Medical]

**Senior Integration Developer at Interactive Data - 7ticks --- December 2013 to January 2015**

- Team lead inherited off-shore development of Big Data financial infrastructure performance and monitoring platform
- Software stack includes Java, Python, Spring, Liferay, jQuery, Redis, Hadoop, MapReduce, HBASE, MySQL, Flume, AMQ, LDAP, Maven and Ant
- Responsible for architecture of redesigning our flagship product using Spring 4.1, MongoDB, Maven, Tomcat, AngularJS, Bootstrap, Jenkins and Sonar
- Implemented redesign of client infrastructure UI display – tree structure of client group devices and components for that user
- Modified Flume serializer jobs to dynamically add device keys and queue new writes to HBASE along with troubleshooting slow performance
- Integrated off-shore team into our version control system, stood up CI environment, and performed code reviews

**Senior Software Engineer at amSTATZ, LLC --- July 2013 to November 2013**

- Technical engineering lead for startup responsible for a team of three developers – acting scrum master for stand-ups, sprint processes
- Implemented domain level security to manage ownership and permissions for business layer using Spring ACL Security and improved internal API
- Abstracted JPA DAO layer to improve re-usability, wrote import/export functionality of user's data using generics and supercsv
- Responsible for PL/pgSQL scripts to migrate data due to new feature releases and was goto person to track down data inconsistencies in production
- Built continuous integration environment using Jenkins, Github plugins, and Sonar

**Senior Software Developer at Alligatortek Inc. --- March 2012 to July 2013**

- Lead Java developer to integrate legacy software and implement new functionality for client's E-commerce site
- Responsible for all development done by our local and off-shore teams – code reviews, provide architecture guidelines and refactored as needed
- Used open-source Jackcess 1.2 to create API to import customer legacy data to ease maintainability and migrate end users
- Extended relational database table design and wrote clean SQL in DAO layer for re-usability and simple migration to stored procedures
- Took initiative to improve local and off-shore development environment using Eclipse, Mercurial, EclipseHg, Log4J and Apache Tomcat 6.1

**Software Engineer at CME Group Inc. --- July 2011 to March 2012**

- Java developer on a large back-end system that calculates and assigns fees to clearing firms trading on exchanges around the world
- Designed and implemented spring batch ETL jobs to persist daily differentials for client EFS web application
- Designed and implemented solution to query and generate csv files on the fly, then package into declared zip MIME file and email
- Optimized multi-threaded trade data processor by limiting class level locking to variable synchronization

**Software Engineer at GoHealth/Norvax, Inc. --- October 2009 to July 2011**

- Team Lead in a fast-paced environment on a back-end application responsible for handling 40,000+ request per day
- Responsible for architectural and process improvements, technical contact for off-shore team and executed production deployments
- Implemented extension of an existing back-end web service framework to interface with consumer facing site using DWR and Javascript
- Design and implemented Ant task to convert legacy schema to new framework schema that eliminated 20 hours per week of manual effort

**Web Developer at HCSC --- April 2007 to October 2009**

- Developed a prototype web application using Java Servlets and JSP that integrated with existing internal server-client application
- Provided support in the development of migrating internal legacy code to Java
- Designed and implemented a dynamic enterprise metric dashboard using Javascript/Ajax

**EDUCATION**

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- Bachelor of Science in Mathematics at University of Illinois at Urbana-Champaign