

JESSE YEN

Seattle, WA

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WORK EXPERIENCE

Jads Software Solutions, LLC.

August 2020 - present

Owner/Engineer

Seattle, WA

At Jads we specialize in custom software development, database solutions, workflow solutions and applications. We embrace the open source philosophy and leverage it to produce affordable solutions for all types of businesses.

Accomplishments

· **Operations**

- Built private infrastructure leveraging kubernetes for quick software development.
- Built CI/CD pipelines for consistent testing and deployments.
- Built custom backups and data recovery solutions using both on-prem and cloud technologies.

· **Design and Engineering**

- Worked with clients to better solidify their needs when designing workflow/software solutions.
- Built solutions for clients around access control using both open source as well as SaaS for IAM.
- Designed and built custom enterprise APIs focused around large data streams/files.
- Assisted in database infra/schema designs to strike a balance of normalization and optimization.
- Helped design and build a custom project tracking solution for an architecture and design firm.
- Rewrote legacy services using modern languages and off the shelf cloud friendly solutions.

LevelTen Energy

April 2019 - June 2022

Staff Engineer

Seattle, WA

As a Staff Engineer at LevelTen Energy I designed and built core analytical services/pipelines. I also worked closely with both power analysts and product managers to ensure the understanding/limitations of our current system and help guide the effort for future features.

Accomplishments

· **Feature Engineering**

- Help build core power analytics features that include historical/forward looking settlement metrics among other calculations.
- Built microservice that followed Modern Portfolio Theory concept to help guide investments based on the type of investor.
- Help build a product that folded live asset production with forward looking analytics to give investors an actual vs projected view of their assets.
- Integrated 3rd party Power Forward data into our system.

· **Architecture and leadership**

- Worked on migrating tasks/pipelines to airflow to gain task dependencies and easier re-runability.
- Worked on initial plan/effort to migrate our analytics pipelines to Google Dataflow.
- Built libraries/modules that decoupled common features from product specific codebases.
- Worked on standardizing processes for logging, configuration and deployments.
- Worked across teams and aided in building tools to minimize inconsistencies in data ingestion.
- Worked on Engineering onboarding and mentorship.

Remitly Inc

Infrastructure Engineer

July 2018 - April 2019

Seattle, WA

As Infrastructure Engineer I worked on standardizing our infrastructure in ways that did not lock us in to one vendor. I also worked closely with team leads in planning and architecting new services into our environments while keeping a focus on scalability and security.

Accomplishments

- **Environment Provisioning and Automation**

- Implemented features to an in-house blue/green deployment system.
- Worked on a migration plan to move environments from AWS VM's to K8s.
- Worked directly with team leads when planning new services or integrations.

- **Reliability**

- Improved transparency by adding Prometheus events and alert monitoring.
- Investigating production issues to find their root cause.

DomainTools, LLC

Principal Engineer

May 2008 - September 2014; September 2016 - July 2018

Seattle, WA

As Principal Engineer at DomainTools I worked with other developers during the design and implementation of our products, focusing on the overall architecture, scalability, maintainability, security, and system integration points of the project. I also worked on the implementation of new services, software performance tuning, and helped bridge the gap between business expectations and technical capabilities.

Accomplishments

- **Whois Record Parsing System**

- Built algorithms that used various attributes to cluster and classify whois records.
- Designed a web interface to create parsing rules while abstracting the technical details.
- Implemented an API to feed parsed data to various products.

- **Real-time Signals System**

- Used the Pub/Sub model with focus on being able to scale horizontally.
- Built warehouse tools to stream data to our various persistent storage solutions.

- **Workflow Manager**

- Built a system that added transparency and maintainability to legacy jobs.
- Implemented a web tool to assemble many interdependent jobs into a manageable workflow.

- **Abuse Monitor**

- Used various heuristics to detect abuse across our products.
- Built a system to automatically rate-limit/block bad actors and alert our service department.

- **Metrics**

- Built and deployed system-wide core metrics.
- Implemented custom Collectd plugins to track service-level metrics.
- Leverage metrics to drive proactive capacity planning.

- **Systems**

- Audit/trace various services and their infrastructure to understand anomalies in our metrics.
- Set up/tuned Hadoop, MongoDB, Cassandra, Elasticsearch and other custom systems.
- Analyze services with various tracing tools to find performance optimizations.

Gatheredtable

Senior Engineer

September 2014 - September 2016

Seattle, WA

Gatheredtable is an early stage startup that gave me the opportunity to implement solutions for all aspects of the business.

Accomplishments

- **Environment Provisioning and Automation**

Used Python and Boto to start/stop and rotate various test environments in AWS.

Leveraged Ansible and Fabric for provisioning and deployment.

- **Data Processing and Analysis**

Designed and implemented a user lifecycle tracking dashboard.

Built a custom ETL data collection system for better data coverage.

Integrated USDA nutrition data into our recipe/ingredient system.

OTHER WORK

RealNetworks

Software Engineer

December 2007 - May 2008

Schweitzer Engineering Laboratories

Software Engineer

August 2006 - December 2007

<http://fuzzbrosbrewing.com>

Pretend Brew Master (but actually hobbyist)

Everyday at 5:00 PM

EDUCATION

Washington State University, Pullman

B.S. in Computer Science

December 2007