

Ivan Rudovol  
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## EDUCATION

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- **University of Massachusetts Amherst** Amherst, MA  
*Bachelor of Science in Computer Science – Information Retrieval* Sep. 2011 – Dec. 2014

## EXPERIENCE

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- **Blend** San Francisco, CA  
*Data Engineer* Oct. 2017 - Jan. 2019
  - **General Duties:** Designed and built data pipelines from the ground up. Analyzed Blend's business growth and infrastructure performance. Mentored junior engineers and interns on best practices around software engineering and project management. Participated in the on-call rotation and triaged live incidents. Deployed and administered *Docker* based services on *AWS*, along with managing a *Redshift* cluster and *PostgreSQL* instances.
  - **Loan Ingestion Tool:** *Flask* driven *Python* web application that uses *Pandas* for sophisticated validation & processing of thousands of client generated financial data points. Processed data is loaded to *S3* and is exposed via *Redshift Spectrum*. Automated a manual, error prone and time consuming process, **saving tens of hours every month**. Improved billing accuracy and lending volume tracking for Blend's customers.
  - **Salesforce Ingestion Pipeline:** *Airflow* driven *Python* service that automatically discovers and extracts data from Blend's *Salesforce* account and loads it into *S3*, exposing it via *Redshift Spectrum* and creating time series of stateful data. Enabled Business Operations and Finance teams to perform product analytics and future revenue forecasting using a previously untapped, but crucial source of data.
  - **Asset Connectivity Pipeline:** Developed a *Python*, *Spark* & *Airflow* based pipeline for extracting financial asset connectivity data. Worked with Compliance and InfoSec teams to filter out Personally Identifiable Information (*PII*) before loading whitelisted data into *Redshift*.
  - **Knowledge Repo:** Evangelized **Knowledge Repo** at Blend - a data science platform for reproducible knowledge sharing. Deployed customized service on *EC2*. Developed and shared a framework for product analytics. The framework is used by Blend's Data team for sharing product insights that shape product decisions.
  - **Application Logs:** Increased usability of application logs by adding parsing, scrubbing and formatting steps to a *Spark* based pipeline serving millions of daily events. Improved DevOps by adding *E2E* testing for the pipeline.
  - **Feature Store:** Developed a framework for documenting and re-using features used in building machine learning models.
- **Whomie** Seattle, WA  
*Founder, CTO* Jun. 2016 - Aug. 2017
  - **Business Development:** Created an Instagram automation service for growing accounts through algorithmically targeted engagements. Planned and built features, focusing on developing a minimum viable product. Iterated quickly with an emphasis on key business metrics, managed lead generation & sales funnel, personally made sales.
  - **Full Stack Engineering:** Designed and developed the product using *Python*, *Flask*, *Redis* and *Instagram API*. Reverse engineered *Instagram API* to access private API functionality. Analyzed, modeled and tweaked service performance using *Pandas*. Deployed containerized multi-tenant service on *Digital Ocean*.
- **Jet** Seattle, WA  
*Co-Founder, Technical Director* Feb. 2016 - Aug. 2017
  - **Event Production:** Co-founded a creative technology driven event production company and grew it to a series of monthly events attended by 700 people. Participated in local music festivals and brought over 70 artists from 3 different continents. Collaborated with brands for promotional efforts, worked with freelancers and handled finances. Performed as a resident DJ.
  - **Technical Direction:** Designed and developed an event and ticket management system that natively integrates with *iOS Passbook API*, built a *Flask* & *React* web application that generates and serves digital passes that are used to check into events. Used *Google Docs API* to build a Customer Relationship Management system for use by non-technical co-founders. Used *Pandas* to analyze customer demographics and identify local influencers.

- **Steambean.co**  
*Co-Founder, Data Scientist*

Seattle, WA  
*Sep. 2015 - Jun. 2016*

  - **Social Media Marketing:** Co-founded an Instagram marketing consultancy for small businesses and digital marketing firms. Pitched services to clients and created case study decks.
  - **Instagram Data Mining:** Developed Instagram scraper tools to identify and engage influencers. Algorithmically identified lookalike audiences and devised strategies to increase fan engagement. Prototyped a retail customer loyalty program using *Instagram API*.
- **Red Bull Media House**  
*Software Engineer – Red Bull Graduate Program*

Santa Monica, CA  
*Summer 2015*

  - **Artist Growth Tools:** Worked with culture marketing team to develop creative artist growth tools. Developed a *Flask* web application for tracking growth of social media accounts, used *Pandas* to analyze growth data. Served as the liason between software engineering and marketing teams. Communicated insights and business metrics to stakeholders.
- **Amazon.com**  
*Software Engineering Intern*

Seattle, WA  
*Summer 2014*

  - **Amazon Payments:** Developed a web application for tracking throughput of a financial processing system using *Java* and *S3*.
- **Cisco Systems**  
*Software Engineering Intern*

Boxborough, MA  
*Summer 2013*

  - **Crash Analytics:** Reverse engineered a hardware security appliance to develop a *Python* tool for analyzing memory dumps. Built a *Laravel* web application to decouple analysis from being connected to crashed device.
- **Cisco Systems**  
*Software Engineering Intern*

San Jose, CA  
*Summer 2012*

  - **Account Authorization:** Implemented *OAuth 2.0* authorization for a *Java* web application.

## SKILL HIGHLIGHTS

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- **Languages & Frameworks:** Python, Pandas, SQL, Flask, PyTorch
- **Paradigms:** ETL, Microservices, Containerization, Unit Testing, Continuous Integration, DevOps
- **Technologies:** AWS, Jupyter, Redshift, PostgreSQL, Airflow, Knowledge Repo, Docker, Spark