

Sev Leonard

Tenacious problem solver seeking positions with opportunities for technical growth and leadership development. Key interests include Python, data engineering, collaborative teams, organizations that effectively support diversity, and products that make the world a better place.

Skills & Technologies

- Languages: 7 years Python, 5 years SQL & JavaScript, 3 years C#, some experience with Scala
- Data engineering with AWS, Databricks, Spark, hive, Python, and Scala. AWS experience includes EMR, RDS, DynamoDB, IAM, CloudFormation, EC2, and S3
- Database design and data wrangling including ORM, ETL, REST API development, Postgres, mysql, SQLite, Jupyter and Databricks notebooks.
- Excellent communication and collaboration skills. Technical writing, speaking, and mentoring
- Experience working with human subject data, HIPPA, PHI, and IRB protocols.

Nuna Health - San Francisco, CA

Senior Software Engineer, November 2018 - Present

- Architected data validation framework for Medicaid data pipelines in Python and Scala.
- Revamped engineering on boarding by organizing knowledge sharing meetings and creating documentation.
- Developed solutions for EMR data pipeline with external hive metastore including infrastructure, pipeline improvements, data cataloging, and user on boarding.
- Worked cross organization and with contractor partners to plan and execute work.
- Mentored engineers on work planning, design, and coding best practices.
- Jumped in to unblock critical paths through technical work and clarifying requirements.

Oregon Health & Science University, Computational Biology - Portland, OR

Research Software Engineer, February 2017 - September 2018

- Developed schema, business logic, and Spring/Hibernate REST API for real-time specimen dashboard. Minimized response time via hierarchical API.



- Delivered 5-10x speedup of Hibernate backend. Resolved long response times and database connection errors through connection pooling and ORM optimization.
- Quickly integrated EHR data through automated ETL processes in SQL. Data sources included Epic, Oncolog, GeneTrails, and Powerpath.
- Reduced front end development time with a custom library of configurable React/Redux HOCs. Designed sagas, reducers, and data translation logic for dynamic UI generation.
- Developed test suites for automated UI testing, functional testing, and ETL testing. Led adoption of best practices: pair programming, usability studies, testing, and source control.
- Created documentation for users and developers on DMS usage and development.
- Prepared proposals, advised cancer center directors on tech decisions, scoped feature requests into epics and user stories, advised managers on priorities and personnel issues.
- Mentored junior developer on software development best practices and career growth.

Independent Consultant, June 2015 - February 2017

- Technical writing, tutorial development, and tutorial testing for DevelopIntelligence.
- Developed object oriented data pipelines tutorial for PyCon 2016. Docker LAMP container served websites and mocked APIs, accessed from Jupyter notebooks.
- Developed a website for camping in the Pacific NW. Created a public lands database and REST API using public APIs, scraped USFS data, and automated reservation queries. Mobile-first GoogleMaps based responsive front end, Google Analytics.
- Improved click through rate by 40% with logistic regression model for targeted advertising. Cluster analysis, NLP, and sparse matrix techniques.

Intel Corporation

Software Engineer, May 2012 – May 2015

- Windows App development in C# and JavaScript with Azure, SQLite, [ASP.NET](#).
- Developed dynamic content framework, Linux driver integration, Android native stack.
- Worked with vendors on UI design, planned work, and mentored junior engineers

Education

- B.S. Electrical and Computer Engineering, The Ohio State University
- M.S. Electrical Engineering - Analog Circuit Design, The Ohio State University

For talks, tutorials, and publications see <http://www.thedatascout.com/training/>