

Ruslan Sakevych

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EDUCATION

- **Taras Shevchenko National University** Kyiv, Ukraine
M.S. in Computer Science Sep 2018 – Present
- **Taras Shevchenko National University** Kyiv, Ukraine
B.S. in Computer Science; GPA: 4.88 (97.5/100.0) Sep 2014 – Jun 2018

EXPERIENCE

- **Google** Sunnyvale, CA
Software Engineering Intern Aug 2018 - Present
 - Migrated old ML pipeline onto Tensorflow-backed framework TFX. Experience with data processing pipelines.
 - Implemented parallel n-ary search algorithm. Speeded up culprit finder 16x times! (on millions of changes).
 - Designed more sophisticated and robust parallel batching algorithm. Reduced tail request latency 3x times!
 - Mined build graph of the whole Google and performed initial analysis. Impl. graph algorithms in MapReduce.
- **Facebook** London, UK
Software Engineer Intern Jan 2018 - Mar 2018
 - Rearchitected Hack parser to be reactive, allowing parsing to be inlined with the computation of the result.
 - 25% parse time reduction for the Hack type-checker (using most of the file contents) on the full-codebase.
 - Up to 50% speed up for tools that use less information(facts extraction) on hundreds of thousands of files.
 - Developed a toolset to analyze and remove unnecessary build dependencies, resulting in 2x speed up.
- **Microsoft** Redmond, WA
Software Developer Intern Jul 2017 - Oct 2017
 - Engineered a new workflow to automate raw telemetry data aggregation and transformation.
 - System monitors execution of user-defined query and publishes results back to data warehouse.
 - Used for intermediate metrics aggregation to reduce data volumes and speed up queries.
- **Google** Sunnyvale, CA
Software Engineering Intern Apr 2017 - Jul 2017
 - Research on build/test time prediction. Performed data analysis, model evaluation and feature engineering.
 - Created tools for ML models debugging/visualization and core service efficiency evaluation.
 - Investigated and mitigated incidents in complex build infrastructure at Google scale.
- **Google** Mountain View, CA
Software Engineering Intern May 2016 - Aug 2016
 - Engineered a service that clusterizes build targets to reduce overall resources usage.
 - Performed evaluation of different batching strategies: memory, run-time optimization.
 - Trained ML models to predict build memory usage and avoid out of memory errors.

PROJECTS

- **Smart Pacmans:** Fun visualization of how neural networks can be trained using genetic algorithms.
- **Resolution Theorem Proving:** Based on sequential method and operates in classic first-order logic.
- **Pollard-Rho:** Attempt to parallelize Pollard-Rho algorithm in Go. **Bonus:** Ethereum smart-contract impl.
- **Parallel PageRank:** Implementation based on MPI and OpenMP. Scales enough to compute Wikipedia pagerank.
- **Aqua Lang:** Data processing language that uses concepts from relational algebra. Opposite to declarative SQL.