

# ANDREI SVETOVIDOV

Data Scientist

**Email:** andreis@vt.edu | **Website:** svetovidov.github.io

## TECHNICAL SKILLS

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**Proficient:** Python, Scikit-Learn, Pandas, Numpy, Matplotlib, Seaborn, HiveQL, MySQL, DB2, Oracle PL/SQL, Matlab, Java, Scala, Spark, Git, LaTeX, Tableau, MicroCap, Altium Designer, Agile (Certification)

**Exposure:** JavaScript, C, Linux, Bash, Docker

## PROFESSIONAL EXPERIENCE

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**LOWE'S COMPANIES INC.**  
**Data Scientist - Customer 360**

Sep 2021 - Present  
Charlotte, NC

- Query, analyze, and pre-process large-scale customer data (>1B records per table)
- Build and test predictive models to leverage specific shopping patterns to enrich customer profiles
- Help data engineers to ingest solutions to production pipeline with Spark in Airflow environment

**COMMONWEALTH CYBER INITIATIVE**  
**AI Research Assistant**

Jan 2021 - June 2021  
Arlington, VA

- Trained ML models to predict the effect of state-level policy on average internet speed with PyTorch
- Applied NLP algorithms to pre-process and quantify raw texts of laws with NLTK and NumPy

**VIRGINIA TECH TRANSPORTATION INSTITUTE (VTI)**  
**Research Assistant**

Aug 2019 - Jan 2021  
Blacksburg, VA

- Gathered large-scale driving data (5M+ recorded trips) using complex SQL queries from DB2 database
- Pre-processed time-series data and classified 30,000+ drivers using Scikit-Learn and Pandas packages
- Developed a computer vision approach to automatically detect 3 types of work zone objects on driving videos with FFmpeg, OpenCV, Numpy, and Scikit-Learn libraries in PyCharm IDE

**TGT OILFIELD SERVICES**  
**Data Analyst Intern**

Sep 2017 - Dec 2017  
Kazan, Russia

- Designed a neural network algorithm to filter out and classify borehole signals in Matlab, which surpassed the previously used method by 4 times in accuracy

**UHF DESIGN RESEARCH LAB @ KFU**  
**Junior Researcher**

Apr 2015 - Jun 2017  
Kazan, Russia

- Performed circuit signal processing and 3D electromagnetic behavior simulation of circuit boards

## EDUCATION

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<b>Graduate Certificate in Data Analytics</b> , Virginia Tech	May 2021
<b>M.S., Radio Physics</b> , Kazan Federal University (Russia)	July 2018
<b>B.S., Radio Physics</b> , Kazan Federal University (Russia)	July 2016

## LEADERSHIP & AWARDS

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Phi Kappa Phi Honor Society	2020
Schlumberger Scholarship Award	2017