

# ANDREI SVETOVIDOV

Data Scientist

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## TECHNICAL SKILLS

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

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

## PROFESSIONAL EXPERIENCE

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### COMMONWEALTH CYBER INITIATIVE

Jan 2021 - Present

#### AI Research Assistant

Arlington, VA

- Build and test models to predict the effect of state-level policy on average internet broadband speed
- Apply NLP algorithms to pre-process and quantify raw texts of laws

### VIRGINIA TECH TRANSPORTATION INSTITUTE (VTTI)

Aug 2019 - Jan 2021

#### Research Assistant

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 Python Scikit-Learn package
- Developed a computer vision approach to automatically detect 3 types of work zone objects on driving videos via FFmpeg and Python tools

### SOVCOMBANK

Oct 2018 - Aug 2019

#### Software Engineer

Kazan, Russia

- Created a chatbot for high-load automatic customer support in JavaScript-based DSL, which served requests of 10,000+ clients a day, and performed statistical analysis of message logs
- Maintained ETL-processes in large bank-wide (8M+ clients) data storage and fetched requested data from Oracle database

### TGT OILFIELD SERVICES

Sep 2017 - Dec 2017

#### Data Analyst Intern

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

Apr 2015 - Jun 2017

#### Junior Researcher

Kazan, Russia

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

## EDUCATION

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**Graduate Certificate in Data Analytics**, Virginia Tech

May 2021

**M.S., Radio Physics**, Kazan Federal University (Russia)

July 2018

**B.S., Radio Physics**, Kazan Federal University (Russia)

July 2016

## LEADERSHIP & AWARDS

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Phi Kappa Phi Honor Society

2020

Schlumberger Scholarship Award

2017