Daniel Kiselev

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EDUCATION

University of Rochester   **Rochester, NY**
B.S. in Computer Science GPA 3.2/4.0   2015-2019

Projects: *github.com/danielkiselev*

Whip – DandyHacks Hackathon Project
- Winner of Google's prize and FactSet's prize
- Web app which provides Lyft drivers information about when airports will be the busiest in the coming days. This is done by geolocating the user and finding their nearest airports and scraping airline data for arriving flights.

Code Analysis – Advanced Compilers (Python)
- Wrote a compiler that reduced C programs into 3-address code.
- The 3-address code is then separated into basic blocks, which are then converted into a control flow graph. The control flow graph can be visualized with the graphviz library.
- By utilizing local value numbering, I removed redundant operations within the code.

Code Translator – Prog. Language Design & Imp. (Python & OCaml)
- Translates a C program into assembly styled code. Essentially taking a normal C program and translating it into a smaller subset of C. The same project was done in both OCaml and in Python providing identical functionality.
- Done by implementing a scanner/tokenizer; a parser for parser tree generation; a translator to convert the parse tree into the desired output.

Mobile Messaging App – Mobile App Development Final Project (Java)
- Developed a messaging app for the Android platform
- Used Google's Firebase for Realtime Database to store messages, friends, and other personal data. Also uses Firebase's Authentication to simplify that registration process. Uses asynchronous computation, so the interface never lags when data is transferred and updates in real-time.
- Used public libraries to encode UUID into QR codes, so users would be able to easily add each other by simply scanning a QR code.

WORK & LEADERSHIP EXPERIENCE

MTX Group Inc   **Troy, NY**
Technical Consultant/Software Developer   May 2018 - August 2018
- Providing consulting to clients regarding salesforce implementation and web development.
- Conducting R&D for the Maverick.io artificial intelligence platform.
- Conducting R&D for projects in web development to meet client's standards.

Dwight-Englewood School/ DE 360   **Englewood, NJ**
Technology Teacher Assistant   July 2017 - August 2017
- Teaching fundamentals of Unity, Python, and raspberry pi.
- Maintaining and creating financial reports for DE 360 summer program.

University of Rochester-Mobile App Development   **Rochester, NY**
Teacher's Assistant   January 2019 - May 2019
- Holding regular office hours to assist students in learning Android development.
- Grading assignments and providing students with clear and useful feedback.

SKILLS
- Java, Python, C, Android Development, SQLite, Web Development, JavaScript, HTML, CSS, OCaml
- Fluent in Russian