

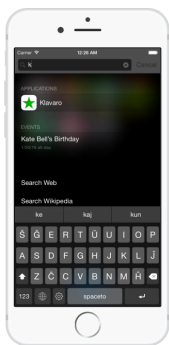
Experience

- Summer 2017 **Google – Software Engineering Intern**, New York, NY.
- Machine learning for Knowledge Engine triggering and ranking on Google Search.
 - Designed and implemented a TensorFlow model with incremental learning support.
 - Ran automated experiments and hyperparameter searches.
 - Compared the model to the baseline solution. Reported ways to improve both solutions.
- Summer 2016 **Google – Software Engineering Intern**, Mountain View, CA.
- Machine learning for a crowdsourcing platform.
 - Created large-scale data processing pipelines.
 - Built TensorFlow models for computer vision.
 - Used scikit-learn, interactive notebooks, and SQL for data analysis.
 - Wrote C++, Python, Java, and JavaScript.

Education

- 2014–Present **American University in Bulgaria**, Blagoevgrad, Bulgaria.
Bachelor's degree in Mathematics
Expected graduation: May 2018
- 2008–2012 **Summer schools for advanced algorithms, computer security, and math**, Russia.
Prepared for programming, information security, and math competitions.

Featured Projects



Klavaro

Esperanto keyboard for iOS with word suggestions.

slava-sh.github.io/klavaro

Messenger

Messaging platform with a microservice architecture.

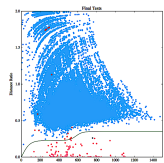
github.com/slava-sh/messenger

Technologies: Docker Compose, Django REST framework, RabbitMQ, Node.js, ReactJS, SockJS, and nginx.

Scheduler

Job distribution system for judging programming competitions in real time. Evolutionary algorithm optimizes testing performance. Written in Go in 1 week. Ranked 4th out of 104 solutions.

github.com/slava-sh/scheduler



Code Plagiarism Detector

I was challenged with detecting plagiarized solutions on programming competitions and came up with a relatively simple but efficient machine learning solution. Technologies: C++, R, Pandas, Matplotlib.

github.com/slava-sh/code-plagiarism-detector

Monty Hall

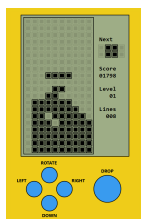
Browser game about the famous probability paradox. Written with Laravel PHP framework and Python's svgwrite.

monty-hall.ucteam.ru

Yellow

Tetris game written in C#.

github.com/slava-sh/yellow



Umqra

Browser game written in Elm, a Haskell-inspired language for the web.

slava-sh.github.io/umqra/enemy-rush.html

Reduced Ordered Binary Decision Diagrams

Haskell library for manipulating Boolean functions.

github.com/slava-sh/robdd

Contributions

Stack Overflow

- Found a serious security vulnerability on stackoverflow.com.
- Featured on the [Stack Exchange Security Hall of Fame](#).

unicorn, Python WSGI HTTP server.

- Fixed a [bug](#) and improved [documentation](#).