

Nikolay Veldyaykin

Curriculum Vitae

Faculty of Computer Science student almost finished the third year. Creative person with a desire to invent new things for people that have technical, business, and interpersonal skills for working alone or in a team and successfully completing a project.

Previous Employment

- February 2018–now Teaching Assistant to «Computer analysis of artistic texts» course, Higher School Of Economics, Moscow.
 - I am responsible for the rating system, grading students work, topics selection. I am a valuable employee in the position.
- October 2017–now Teaching Assistant to «Digital literacy» course, Higher School Of Economics, Moscow.
 - I worked as a student work rater, a course infrastructure provider, the assistants leader. I was often trusted with other jobs such as constructing the final test, consulting about the course content in difficult moments. After the first part the superiors made the offer of responsible job at the new course described above and the position of the head.
- August 2016–November 2017 Steward and Help Service, Otkritie Arena, Moscow.
 - I started as a steward (monitoring law and order, entry inspection). My work was praised ethic and qualified by the head steward of mine. Later I was hired at Help Service(bad tickets exchange) and FIFA Confederations Cup steward. Steward work is organised with requests system, after November 2016 I stopped making requests, but I still have the opportunity and the official Russian steward document.

Education

Academic Qualifications

- 2015–2019 Bachelor's Programme in Applied Mathematics and Information Science, Faculty of Computer Science, Higher School of Economics, Moscow.
- 2012–2015 9-11th grades, «Programmer» specialization, Lyceum of Infirmination Technology 1533, Moscow, Subjects for programming (5/A) Geometry (5/A) Algebra (4/B) Other (5/A and 4/B).
- 2010–2012 7-8th grades, Grammar school 1593, Moscow, 5/A and 4/B Including IT, Maths, English, German.
- 2004–2010 1st-6th grades, School 1, Birobidzhan, 5/A Including Maths, English, Chinese.

Notable Projects

- Bachelor 3rd year individual project (Ongoing): «Search, Aggregation and Recommendation Construction of Scientific Events»

This challenging project has taken place over the entirety of my third year. It has required Python/Flask, data gathering and machine learning skills, and the ability to teach myself an entirely new and complex subject. I has been working with the professor from Dartmouth College, USA, and worked with a expert from London.

- 2nd year individual and team project: «Laplacian Eigenmaps algorithm for out-of-sample points»
Six months were provided for this project. During the realization I learned many complex subjects and ways of embedding. The project was a success, with the system being able to transform sample and out-of-sample points to new space. I and my colleagues compared our results and built system by the requirements of «scikit-learn» open-source library. This project was suggested for a conference by my supervisor, I presented it on ITAS'17 in part of «Data science» section long speeches (not poster).
- 1st year individual project: Telegram bot for learning English words «E_CardBot»
In the 1st year of my course I spent a week completing a project with Yandex worker Mikhail Olenin as a supervisor. During this project I was working sometime in a professional environment, and co-operating with some other Yandex worker specialized at this topic to create a user-friendly bot and to learn presenting my project.
- 10th-11th grades: Inertial navigation system corrected by an odometer
I had a year and half to build a robotic system on a wheelbase and to write code for this system. It was two-staged project. The first stage is a wheelbase with motors, sensors, memory and separated code for a computer. The second stage is a complex system with parts for movement and an entire navigation system. The project was presented at all-Russian contest of schoolchildren' scientific works «Junior» and won the 2nd prize in «Informatics» section in 2015. Also, I participated with the project in the second Yandex's conference for schoolchildren about programming at «Movement» section and got organizer's special prize after the debut with «Traffic jam simulator» a year earlier.

Technical and Personal skills

- Programming and Layout Languages: Proficient in: Python, C#(.NET Framework, .Net Microframework), C++, C, Matlab, HTML. Intermediate in TeX, CSS
Also basic ability with: JavaScript, Node.js, R, Assembly.
- Industry Software Skills: Docker (Advanced), Matlab/Octave (Advanced), matplotlib (Advanced), different Yandex/Google/Telegram/Discord APIs (Advanced), NumPy/SciPy/Pandas/sklearn/flask (Upper Intermediate), MongoDB (Upper Intermediate), UNIX/Windows (Upper Intermediate), NLP systems and libraries (such as BigARTM, nltk, specific Computations graph (also known as «Neural Networks») architecture, lemmatisation products) (Intermediate), scrapy/sphinx (Intermediate).
- General Business Skills: Good presentation skills, Have organizational skills and experience, Can improvise in different situations including business, Works pretty well in a team, Have basic knowledge about business processes analysis.
- Other: Have a quick eye, Polite, Can write short and informational reports.

Interests and extra-curricular activity

- I was a head «fresher representative» in my 2nd and 3rd years of university, this required me to guide, look after, and ensure that a particular first years students group have a good time in their first term. I was responsible for the safety and wellbeing of the group of first years during the first year, and during this time I made good friends with some. My supervisory function consisted of the responsibility for all faculty of mine «fresher representative», calling organizational meeting and material supply.
- I was a volunteer on some all-Russian and global events including IDAO 2018, ACM-ICPC 2015-2017 and CLA 2017 and was offered a promotion to volunteer-organizer. In addition, I was a member of Student Council.
- I am also a swimmer (max distance 6150 m) and participated in orienteering competitions (Russian II adult rank). Moreover I like other different types of sport. Other interest include engineering, which I am self-taught, and home brewing.

Publications

Н. Вельдяйкин и Ю. Янович. Алгоритм laplacian eigenmaps для точек вне обучающей выборки. Сборник статей конференции «Информационные технологии и системы» (ИТиС'17), 2017.