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Anton Karazeev

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EXPERIENCE

Software Engineer — **Delivery Hero** — **Oct 2022 — Present**
Restaurant Supply Chain → AdTech
Berlin, Germany

- Developed and maintained **Flask** APIs (**Python, SQLAlchemy**), adhering to CI/CD best practices.
- Integrated third-party APIs (**Shopify**, **Stream Chat**, **Twilio**) to expand software capabilities.
- Deployed and managed **AWS** services (**S3**, **Lambda**, **ECR**, **SQS**) with **Terraform**.
- Worked on **Dart**-based **Flutter** mobile app development.
- Improved performance of **Go**-written API gateways and accelerated **React** frontend loading times.

Software Engineer — **360dialog** — **Jul 2020 — Sep 2022**
Berlin, Germany

- Automated billing using **Stripe** API and improved user support with **JIRA** API integration.
- Worked closely with **WhatsApp Business Platform** API to ensure a seamless messaging experience for the clients.
- Designed and implemented **Flask** APIs (**Python**, **SQLAlchemy**).
- Deployed services wrapped as **docker** containers in the cloud (**GCP**).
- Utilised **Behavior-driven development** (BDD) with tests in natural language (**behave**).
- Enhanced monitoring in **Grafana** using **Prometheus** and connected alerts to **Slack**.
- Optimised onboarding for new clients with Embedded Signup.
- Managed system stability during rapid client base growth.

Software Developer — **1C** — **Nov 2019 — Jul 2020**
1C:Enterprise Development Tools
Moscow, Russia

- Implemented new features in **Java** to improve user experience and let programmers who use this platform to write reliable code faster.
- Extended set of available plug-ins for the platform which is based on **Eclipse IDE**.

Quantum Software Engineer Intern — **QuTech** — **Sep — Nov 2019**
Wehner Group, Quantum Internet Division
Delft, Netherlands

- Developed in **C** an embedded firmware for Hercules LaunchPad microcontroller to control quantum physical setup via connection through ADwin-Pro.
- Developed a **Reinforcement Learning** system in **Python** to control setup of lasers during the experiments with NV-center in diamonds in close contact with physicists.

Machine Learning Engineer — **ChatFirst** — **Sep 2018 — Apr 2019**
Moscow, Russia

- Responsible for **NLP**, implemented different ML models in **Python** to improve performance of chatbots.
- Used **BERT** to improve performance of production system in multiple aspects. Fine-tuned the model for downstream tasks.

Teaching Assistant — **Laboratory of Neural Networks and Deep Learning** — **Mar — Dec 2017**
Laboratory of Neural Networks and Deep Learning
Moscow, Russia
Moscow, Russia

- Responsible for preparing practical and theoretical assignments for the course of Reinforcement Learning and theoretical assignments for the course of Natural Language Processing with the number of 100+ enrolled students each.

EDUCATION

M.Sc. in Computer Science and Physics — **2019 — 2021**
Moscow Institute of Physics and Technology, Russia

B.Sc. in Computer Science and Physics — **2014 — 2019**
Moscow Institute of Physics and Technology, Russia

TECHNOLOGIES & LANGUAGES

- **Languages:** Python, Go, Java, C/C++; **Frontend:** React, JavaScript, CSS/HTML;
- **Technologies:** PostgreSQL, Docker, Terraform, AWS/GCP, Git, BDD, Jenkins, Spinnaker;
- **Python libraries:** numpy, scikit-learn, pandas; **NLP:** NLTK, Gensim; **Deep Learning:** PyTorch, TensorFlow; **Web:** Flask, Django; **Databases:** SQLAlchemy, peewee.

ADDITIONAL EDUCATION

"Quantum Computing" course at Skoltech — **Quantum Computing** — **February 1 — March 16, 2018**

- Final Project - Quantum walks and Variational algorithm for 3- and 4-level systems.

"Summer school on Bayesian Methods in Deep Learning" — **DeepBayes Summer School** — **August 26 — 30, 2017**

"Big Data in Bioinformatics" — **Bioinformatics Summer School** — **July 31 — August 5, 2017**

- Participated in a hackathon during the school. Project.

"Natural Language Processing" course (based on cs224d.stanford.edu) — **DeepHack Lab** — **September — December 2016**

- Accepted a proposal to become a Teaching Assistant after the end of the course.

"Supercomputer technologies for atomistic modelling" course — **JIHT RAS** — **September — December 2015**

- Final Project - Molecular Dynamics is a program written in C using OpenMP framework for parallel computing. Used VMD for visualisation.

MOOCs

- **AI for Medical Treatment** by deeplearning.ai (2020)
- **AI for Medical Prognosis** by deeplearning.ai (2020)
- **AI for Medical Diagnosis** by deeplearning.ai (2020)
- **Sequence Models** by deeplearning.ai (2019)
- **Convolutional Neural Networks** by deeplearning.ai (2019)
- **Improving Neural Networks: Hyperparameter tuning, Regularization and Optimization** by deeplearning.ai (2019)
- **Full Stack Deep Learning** (2019)
- **Neural Networks and Deep Learning** by deeplearning.ai (2019)
- **Mathematics and Python for Data Analysis** by MIPT & Yandex (2017)
- **Molecular Biology and Genetics** by Bioinformatics Institute (2016)
- **Neural Networks** by Bioinformatics Institute (2016)

PROJECTS

- **API for Online Shop** (2020). Set of API methods to implement basic logic of online shop.
- **Service for Reading** (2019). Service has a web interface and an application for Android. It helps to read texts in foreign languages and easily add unknown words to the wordlist to further studying.
- **Quantum Computing Bot** (2018). Solves the problem of load monitoring of IBM Q processors from IBM Quantum Experience. Bot was made available inside QISKit workspace in Slack.
- **Quantum Keypad** (2018). This keypad allows to easily compose quantum circuits of different kinds. Besides keypad itself, Quantum Keypad consists of a power bank and Raspberry Pi Zero W. As a simulator QISKit package for Python was used. Project was inspired by Model Q.
- **Reverse Engineering in Dispersion Engineering** (2018). With a student at EPFL we developed a project on Dispersion Engineering. Our model predicts parameters of resonator system's simulation.
- **Frontopolar** (2017). Applied Reinforcement Learning for Stock Trading. State-of-the-art results were achieved. Different approaches were tested including Q-learning and Recurrent Reinforcement Learning.