Berlin, Germany
anton.karazeev@gmail.com

Anton Karazeev

linkedin.com/in/akarazeev
github.com/akarazeev

EXPERIENCE

Quantum Communication System Engineer	**Terra Quantum** St. Gallen, Switzerland	**August 2024 — Present**

- Leading development of Key Management System (**KMS**) for full-stack quantum key distribution (**QKD**) system in collaboration with hardware specialists.
- Implementing **post-quantum** cryptographic algorithms and certificate management.
- Architecting backend systems using **Python**, **PostgreSQL**, **Grafana**, and **Celery** in containerized environments (**docker**).

Software Engineer Restaurant Supply Chain → AdTech	**Delivery Hero** Berlin, Germany	**October 2022 — July 2024**

- 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 API gateways in **Go** resulting in **40%** latency reduction and accelerated **React** frontend loading times.

Software Engineer	**360dialog** Berlin, Germany	**July 2020 — September 2022**

- Automated billing with **Stripe** API, greatly reducing the amount of manual work.
- Worked closely with **WhatsApp Business Platform** API to ensure a seamless messaging experience for the clients.
- Significantly increased speed of onboarding for new clients with Embedded Signup.
- Designed and implemented **Flask** APIs (**Python**, **SQLAlchemy**).
- Deployed **docker**ized services 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**.

Quantum Software Engineer Intern Wehner Group, Quantum Internet Division	**QuTech** Delft, Netherlands	**September — November 2019**

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

Machine Learning Engineer	**ChatFirst** Moscow, Russia	**September 2018 — April 2019**

- Responsible for **NLP**. Investigated available ML models, stacked and utilised them 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.

EDUCATION

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

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

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.
- **English:** Full Professional Proficiency, **German:** C1, **Russian:** Native