europass

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WORK EXPERIENCE

Software Engineer

Presence AI [05/06/2024 – 12/07/2024]

City: Zug | **Country:** Switzerland | **Website:** presence.ai | **Name of unit or department:** AI R&D - **Business or sector:** Information and communication

- Microservice arhcitecture engineering
- AI pipeline integration into web application
- Code optimization and refactoring

Software Engineer

Joint Stock Company «Bank Finservice» [04/10/2023 – 30/04/2024]

Address: Taras Shevchenko Embankment St. 23A, floor 2, premise 1, room 1, 121151 Moscow (Russia) | **Website:** www.finsb.ru | **Name of unit or department:** IT - **Business or sector:** Financial and insurance activities

- Database migration
- Engineering of a banking processes information exchange web automation solution
- Support of the existing code base

Software Engineer

- [01/04/2024 – Current]

City: -

- Real-time system data processing, management and dissemination
- Systems engineering and development processes setup
- Backend development of informational web application

EDUCATION AND TRAINING

Computer Scientist

Lomonosov Moscow State University [01/09/2021 – Current]

City: Moscow | **Country:** Russia | **Website:** www.msu.ru | **Field(s) of study:** Natural sciences, mathematics and statistics ; Information and Communication Technologies | **Level in EQF:** EQF level 5 | **NQF Level:** 7

Main Subjects:

- **Mathematical Analysis**
  - Foundations of calculus, differential and integral equations.
  - Multivariable functions and their applications.

- **Linear Algebra and Geometry**
    - Vector spaces, linear transformations, and eigenvalues.
    - Analytical geometry and its application in optimization problems.
- **Probability Theory**
    - Random variables, probability distributions, and expectation.
    - Limit theorems and convergence concepts.
- **Mathematical Statistics**
    - Hypothesis testing, parameter estimation, and statistical modeling.
    - Multivariate analysis and statistical inference.
- **Discrete Mathematics**
    - Combinatorics, graph theory, and algorithms.
    - Boolean algebra and its applications.
- **Numerical Methods**
    - Algorithms for solving mathematical problems computationally.
    - Error analysis and optimization techniques.
- **Programming and Computational Methods**
    - Proficiency in languages such as Python, C/C++, R, NASM.
    - Algorithm design and implementation for statistical problems.
- **Development of Highly Loaded Systems in Rust**
    - Rust programming principles for building scalable and high-performance systems.
    - Concurrency, memory safety, and distributed systems design.
- **Application Development for UNIX-Based Operating Systems**
    - Advanced UNIX programming, shell scripting, and system calls.
    - Development and deployment of applications tailored to UNIX environments.
- **Machine Learning and Analytical Forecasting**
    - Supervised and unsupervised learning methods.
    - Time series forecasting, predictive modeling, and statistical machine learning.
- **Modern C++ Development Methods**
    - C++17/20 features and best practices in modern software development.
    - Advanced concepts like meta-programming, concurrency, and performance optimization.
- **Data Analysis and Machine Learning**
    - Big data handling and statistical software tools.
    - Practical implementation of machine learning techniques.
- **Operations Research and Optimization**
    - Linear and nonlinear programming.
    - Stochastic and dynamic optimization techniques.

Occupational Skills:

- **Theoretical and Applied Problem-Solving**
    - Designing and analyzing mathematical models for real-world systems.
- **Data Collection and Statistical Analysis**
    - Proficiency in cleaning, visualizing, and interpreting data.
    - Implementation of advanced statistical techniques.
- **Algorithm Development and Computational Proficiency**
    - Designing algorithms for data processing and optimization tasks.
    - Usage of high-performance computing for statistical simulations.
- **Software and Statistical Tools Mastery**
    - Advanced use of R, Python, and specialized statistical software.
    - Practical application of statistical libraries and packages.
- **Scientific Communication**
    - Ability to present complex mathematical and statistical concepts clearly.
    - Writing research papers and technical reports.
- **Research and Development in Mathematical Statistics**

- Conducting original research and contributing to advancements in the field.
- Applying modern theories to solve complex interdisciplinary problems.

LANGUAGE SKILLS

Mother tongue(s): Russian

Other language(s):

English

LISTENING C1 **READING** C1 **WRITING** B2

SPOKEN PRODUCTION B2

SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Operating Systems

Linux / C UNIX API / Windows / C WinApi

Data Systems

PostgeSQL / SQLite / MySQL / Redis

Backend Stack

Django / FastAPI / Flask / SQLAlchemy / PrismaORM / userver / SeaORM / Rocket / Tokio / Express.js / Go-std / Gin / Fiber / GORM

IDE

Vim/NeoVim / Visual Studio / Visual Studio Code / JetBrains products / SASM

DevOps Toolset

Git / Jenkins / Docker / Kubernetes

Programming Languages

C/C++ / Python / Rust / Go / R / LaTeX / HTML / CSS / JavaScript / TypeScript / Mojo / NASM

API Standards

REST / GraphQL / gRPC