

Sergei Smorodin

📍 Home : Didim, Türkiye

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📅 Date of birth: 23/12/1989 🇷🇺 Nationality: Russian

ABOUT ME

C/C++ developer and audio schematics enthusiast

WORK EXPERIENCE

[01/09/2022 – Current]

C++ developer

Project Experience for C++ Developer internship at Yandex.Praktikum

Development and implementation of application architecture that ensures the execution of specified requirements for algorithmic complexity, exception safety, and adherence to SOLID principles. Used third-party libraries (protobuf, ANTLR), Git version control system, and the CMake build system.

Developed the "Search Server" project. The functionality of the project includes creating an indexed documents database, searching for relevant documents in accordance with the user's request, and displaying search results in a page-by-page form based on the calculated relevance values for each result. The Search Server implementation provides the ability to handle parallel requests.

<https://github.com/sssmorodin/cpp-search-server>

Developed the "Transport Catalogue" project, which accepts requests in JSON format in two stages. First-stage requests are used to create a database of bus stops and routes, and the generated database is serialized. During the processing of second-stage requests, the database is deserialized, and depending on the type of request, the user is given information about bus routes, stops, or the optimal route between two stops in terms of travel time, as well as a visualization of the route map.

Output format: .json and .svg.

<https://github.com/sssmorodin/cpp-transport-catalogue>

Developed the "Spreadsheet" project. Its functionality allows the user to store data of different types in cells and use them to calculate formulas. The project handles exceptions caused by incorrect use of data when creating formulas, including cyclic dependencies.

<https://github.com/sssmorodin/cpp-spreadsheet>

[13/02/2012 – 04/03/2022]

Engineer

JSC CSRIAH

City: Moscow

Country: Russia

Led the development of inertial navigation system devices (INS) for aviation and space technology.

Developed algorithms to assess INS sensor characteristics (gyros and accelerometers), conducted testing on a multi-axis motion table, and analyzed results using Matlab.

Implemented a method that significantly increased the accuracy of determining the orientation of the base coordinate frame of the INS relative to the multi-axis motion table frame, reducing it from 60 arcsec to 10-20 arcsec (depending on the accuracy of geodetic optical instruments used).

Managed a team responsible for serial production and warranty support for navigation devices and systems, fostering collaboration and ensuring high-quality deliverables.

EDUCATION AND TRAINING

[01/09/2006 – 01/03/2012]

University specialist degree in Aviation devices and measuring-calculating complexes

Moscow Aviation Institute

City: Moscow

Country: Russia

LANGUAGE SKILLS

Mother tongue(s): Russian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

German

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Turkish

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

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

DIGITAL SKILLS

C++ | C | STL | Embedded | CMake | git | bash | gdb | SQL | PostgreSQL | Linux
| Python | JUCE | protobuf

VOLUNTEERING

[29/12/2022 – Current]

Care of Didim Animals (CoDA) animal welfare charity Didim, Türkiye