Andrey Steblyakov

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Education

Bachelor of Computer Science, Portland State University, Portland, OR   9/2020 - 5/2024
- Summa cum laude

Skills

- C, C++, Python
- Web dev (CSS Grid | Flexbox | JS)
- Flask | SQL
- Linux (Ubuntu)
- Visual Studio | VS Code | Vim
- Bilingual: Native Russian speaker

Experience

Software Engineering Intern, Portland State Aerospace Society, Portland, OR   6/2023 - 10/2023
Software for OreSat 0.5, Oregon's second satellite.
- Created a Flask API to simplify command delivery and testing, allowing PSAS to send and receive commands through web browsers, improving accessibility and usability.
- Contributed to the OreSat Linux App Framework (OLAF), completing the star tracker app to determine attitude and capture Earth and space photos.

Backend Developer, Electronics Prototyping Lab, Portland State University, Portland, OR   6/2023 - 10/2023
PrusaSlicer Automated Routing and Quoting Engine (PARQE).
- Efficiently routed data and requests between Flask, Octoprint, and PostgreSQL.
- Handled database operations, such as storage, retrieval, and organization, to support the overall functionality of the system.
- Implemented robust data validation and error handling mechanisms to ensure the reliability of the entire workflow.

Personal Projects

Sparky (C++ game engine with SDL 2)   2021 - Present
- Developed an ECS architecture to optimize performance, implemented a frame-based simulation of classical mechanics, and enhanced pathfinding with a graph-pruning algorithm.
- Built a robust polygon class for collision detection, manipulation, and SVG file integration.