Leonid Belyaev

Available May 2023 — December 2023

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Education

Northeastern University, Khoury College of Computer Sciences   {**Aug. 2020 – April 2024**}
Candidate for a Bachelor of Science in Computer Science and Mathematics   *3.5/4.0 GPA*

– **Honors:** Dean's Scholarship, Dean's List

– **Leadership:** NU Wireless Club Treasurer

– **Coursework:** Algorithms, Object Oriented Design, Computer Systems, Networks & Distributed Systems

Conard High School   {**Aug. 2016 – June 2020**}
High School Diploma   *4.2/4.0 Weighted GPA*

– **Honors:** Maximum Honors

– **Leadership:** Men's Swim Captain, Baduk Club President

– **Coursework:** 10 AP Classes

Skills

Languages: Python, Java, Rust, C, C++, Wolfram Mathematica, SQL, LaTeX, HTML/CSS, JavaScript
Systems: Linux, Bash, NixOS, Windows, Docker/Podman, Git, Emacs, SLURM, GNU Make
Frameworks: Django, Flask, Rocket, JUnit, ACL2, Selenium, OpenAI
Other: Amateur radio (KC1QYF), Penetration testing, Digital forensics, 3D printing, Russian language

Experience

Scientific Programmer @ N.U. HPC Lab, NERSC   {**May 2023–Present**}

– Refactoring Perlmutter transparent checkpointing application for over 8000 scientific users' programs

– Supporting arbitrary MPI implementations and CentOS topologies in resource virtualization

– Using C, C++, Bash, GNU Make, SLURM

Freelance Programmer @ massinvestor.com   {**February 2023–May 2023**}

– Wrote full-stack web application providing end-user scraping for over 2000 heterogenous websites

– Iterated on client requirements through meetings

– Used Python, Flask, JavaScript, SQL, Docker, Selenium, and GPT-4

Projects

Blorg *Rust, SQL, HTML, CSS, NixOS, Linode, Systemd, Caddy, DNS*   {**March 2023–Present**}

– Personal high-performance blogging engine with unconventional artistic and comprehension features

– Deployed with NixOS on Linode VPS, achieved via LISH recovery console, to ensure perfect reproducibility

BPWorks *Python, Django, JavaScript, Docker, SQL, REST*   {**February 2023**}

– Full-stack Boston public works data visualization web application with task-scheduling container

– Top 10 Hackbeanpot 2023

Neuromaster *Rust, Kiss3D, XML, Linear Algebra, Force-Directed Graphs*   {**October 2022**}

– 3D network explorer offering superior dense topology comprehension and graphics performance to Zenmap

– Forked existing open-source library on Github to implement full Nmap XML parsing in Rust

Cultroid *Python, Q-Learning*   {**December 2021**}

– From-scratch model-free reinforcement learning agent capable of human-level Tetris puzzle play

– Implemented custom game type from Cultris II