Gennadii Sytov // Software Engineer

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Education

Bachelor of Science: Computer Science, Mathematics   **September 2017 – March 2020**

Portland State University: Maseeh College of Engineering & Computer Science – Portland, OR

- Graduated with highest honors: *summa cum laude* (Cumulative GPA: 3.93/4.0)
- Course highlights: Internetworking Protocols, Advanced Programming with Java, Applied Statistics for Engineers, Cryptography, Numerical Computation, Computational Structures, Mathematical Analysis, Group Theory

Experience

Software Engineer, Google Summer of Code 2019   **May 2019 – August 2019**

CGAL: Computational Geometry Algorithms Library – (Remote)   C++ 11, OOP, TMP

- Developed the Shape Regularization package for CGAL in C++ 11
- Implemented Global Regularization algorithm for application of geometric primitives based on user-defined types of regularization and methods for querying neighbors
- Designed, implemented, tested and documented the project from start to finish

Backend Engineer, Closed Captioning Encoder   **June 2019 – December 2019**

Amazon Web Services Elemental Live – Portland, OR   Python 3

- Headless web application for encoding caption data to CEA-608 byte pairs
- Carried out research, design and development converting closed caption data
- Main researcher (R&D) of CEA-608 as part of an 8-member Agile team
- Programmed the core functionality for constructing byte pairs in Python 3.7

Software Developer, Placemark, LLC   **January 2017 – May 2017**

Custom Web Applications – St Petersburg, RU   PHP, JavaScript, SQL

- Worked as part of an Agile team to develop custom web applications/websites
- Worked with REST API's to integrate bank payment methods into CMS
- Created, debugged, and configured plug-ins & modules in PHP, JavaScript (JQuery), SQL
- Handled external communication to establish contact & clarify information for final product

Certificates

Scalable Java Microservices: Spring Boot, Spring Cloud   **April 2020**

Skills & Tech Stack

Programming Languages: C, C++, Java, Python, PHP, JavaScript, XML, HTML, CSS, Less, R, Z shell (zsh), Bash, SQL
Databases/Database Management Systems: MySQL, PostgreSQL, Cloud SQL
Tools: Git, Vim, GCC, g++, GDB, Valgrind, Make, CMake, Doxygen, JUnit, JavaDoc, Java EE/JEE/J2EE, Maven, Gradle, Mockito, jQuery, Google Cloud Plaform (GCP)

Operating Systems: UNIX, Linux, macOS, Microsoft Windows, xv6
Proficient in: Object-Oriented Design, Generic Programming, Test Driven Development, Template Metaprogramming, REST, TCP/IP, Debugging, Algorithms, Data Structures
Familiar with: Quadratic Programming, Boost C++ library, Socket Programming, Concurrent Programming, Microservices

Work Authorization

Fully authorized to work anywhere in the United States (Green Card holder)