G.V. SYTOV

SOFTWARE ENGINEER

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EDUCATION

B.Sc: Computer Science, Minor in Mathematics   **SEP 2017 – MAR 2020**

Portland State University – Portland, OR

- Honors: *summa cum laude* (GPA: 3.93/4.0)
- Coursework highlights:
  - Internetworking Protocols, Computational Structures, Advanced Programming w/ Java, Applied Statistics for Engineers, Cryptography

CERTIFICATIONS

Building Scalable Java Microservices   **APR 2020**

with Spring Boot and Spring Cloud

WORK EXPERIENCE

Software Developer Intern   **MAY 2019 – AUG 2019**

Google Summer of Code 2019   *C++ 11, OOP, Quadratic Programming, Generic Programming*

Computational Geometry Algorithms Library (CGAL) Project – Portland, OR (Remote)

- Developed the Generalized Global Regularization package for CGAL under the supervision of Dr. Dmitry Anisimov
- Implemented the shape regularization algorithm for the application of various geometric primitives based on user-defined types of regularization and methods for querying neighbors
- The package comes with classes that work on 2D segment sets

CAPSTONE PROJECT

Perception: Closed Captioning Project for Amazon Web Services Elemental Live   **JUN 2019 – DEC 2019**   *Python 3.7*

- Headless web application for encoding caption data to CEA-608 byte pairs and logging the data as JSON to a file
- Carried out research, design and development as part of an Agile team
- Main researcher of CEA-608 in a 8-member team
- Created byte pairs by hand, as well as programmed the core functionality for constructing byte pairs

SKILLS & QUALIFICATIONS

- **Programming Languages:** C, C++, Java, Python, JavaScript, R, Bash, SQL
- **Databases/DBMS:** MySQL, PostgreSQL, Cloud SQL
- **Tools:** git, vim, gcc, g++, gdb, valgrind, make, cmake, doxygen, jUnit, maven, mockito, Javadoc, Java EE, Google Cloud, Spring Boot
- **Operating Systems:** UNIX/Linux, macOS, Windows, xv6
- **Proficient in:** Object Oriented design, generic programming, Test Driven Development, REST, TCP/IP
- **Familiar with:** Quadratic programming, Boost C++ library, socket programming, multi-threading, concurrency control, microservices