

# Roman Ripp

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## Profile

Motivated, dynamic and talented engineer seeking to advance professional career. Have a true passion for technology and programming. In-depth understanding of Software Engineering, Algorithms and Data Structures, Design Patterns, and Microservice Architecture. Fast learning and hard-working specialist with previous industrial and research experience. Showed myself as organized, self-motivated, and capable of working under pressure. Currently working as a Senior Software Engineer for [CrossnoKaye](#). Involved in the development of an IoT platform for energy use optimization in industrial applications.

## Work Experience

- July 2020 - present **Senior Software Engineer** at [CrossnoKaye](#). Leading architecture and development of the microservice-based IoT platform capable of efficiently controlling industrial facilities.
- Apr 2014 - July 2020 **Software Engineer II** at [Hexagon](#). Worked on features for the computer-aided manufacturing software [Esprit](#). Was involved in the development of the toolpath simulation component, tools for quality monitoring, and infrastructure instruments.
- May 2013 - Aug 2013 **Research assistant** at the [Robotic Sensor Networks Lab](#), University of Minnesota. Worked on autonomous navigation algorithms for unmanned aerial vehicles for agricultural purposes.
- Aug 2011 – May 2012 **Software Engineer** at the Siberian State Medical University. Worked on patient data analysis and implemented the organ failure risk estimation tool.

## Education and Training

- Sep 2012 – May 2014 Master's degree in Computer Science, the University of Minnesota Twin Cities.
- Sep 2007 – June 2011 Bachelor's degree in Automation and Control, Tomsk Polytechnic University.

## Awards and Scholarships

- July 2012 – May 2014 Fulbright Foreign Student Program.
- Sep 2007 – May 2012 Government Scholarship.
- Oct 2007 – June 2011 Elite Education Scholarship.

## Skills

**Programming languages:** Golang, C/C++, Python, C#, Java, JavaScript. (ordered by proficiency)

**Development tools and libraries:** AWS Services, Timeseries Databases (Influx, Timescale, Clickhouse), Databases (Postgres, SQLite), Metrics and Monitoring (Grafana, Prometheus), Version Control (git).

**DevOps tools:** Kubernetes, Terraform, Docker, Github Actions, TeamCity.