

William Rågstad

Systems Engineer / Software Developer / IT-Security Specialist



William Rågstad
Stockholm, Sweden

Contact me

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"As a skilled programmer, I aim to bring **value** and **impact** through consistent **quality** and **innovation**."

About Me

Early experience

I began programming at the age of **11** and have been hooked ever since. I got my first job at **16**.

Education

During my final high school years, I studied at **university** early. When at **KTH**, I worked as a **Teaching Assistant** and **Research Assistant** while still an **undergraduate** student. Even **teaching my student peers** as a TA, *while also taking the same classes myself*.

Hobbies

I like to spend time with **family and friends**, play **online games**, work out at the **gym**, participate in **track and field** athletics, **play the cello**, and read **books** and **research papers**.

I'm deep-diving into **Programming Language Design**, **Type Theory**, and **Compiler Design**.

Personality

I am a **creative problem solver** who enjoys new **challenges** and **learning** opportunities. I try to be **considerate**, **kind**, **attentive**, **thorough**, **curious**, and generally **open-minded**.

Highlights



I have participated in various **competitive programming** contests, **hackathons**, **startups**, and **CTF** competitions playing in the **Swedish National Hacking Team** and the **RoyalRoppers** CTF teams.

- **Creator, Programming Languages:** Designed and implemented interpreters and compilers for **Lento**, **Web X**, and **mini**, among others.
- **Developer, 100+ GitHub Projects:** Strong technical expertise in **OSS**-dev. Some with over **200,000+ users** worldwide.
- **Organizer, Undutmaning CTF 23, 24, 25:** Technical project manager for the website, infrastructure, and challenges.

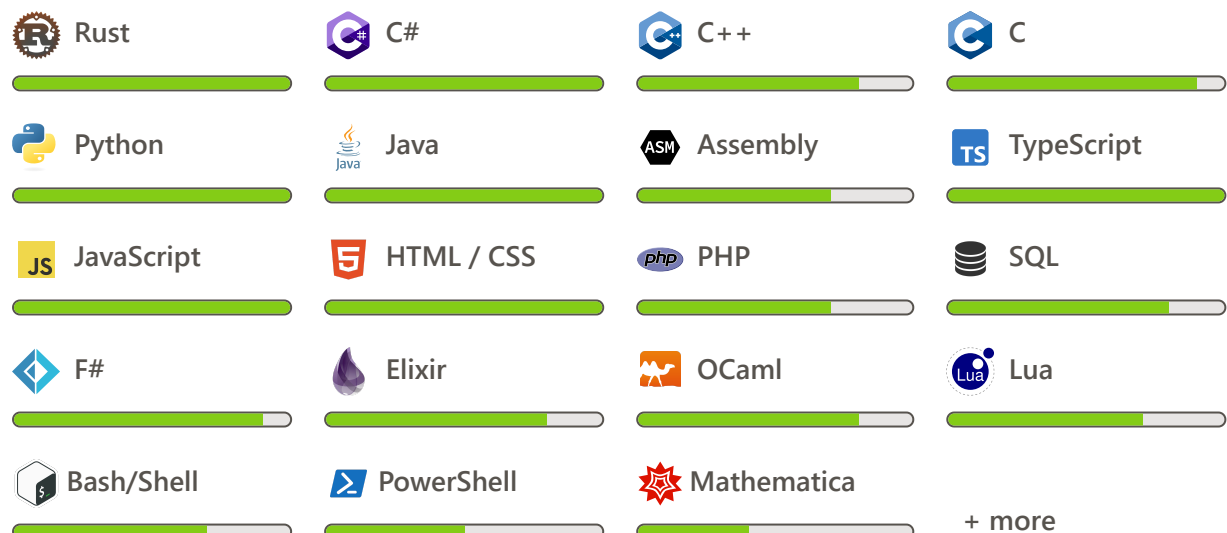
- **Member, RoyalRoppers**
Team: Expertise in reverse engineering, web, network, binary exploitation, cryptography, and more.
- **Member, ACM SIGPLAN:**
Association for Computing Machinery's Special Interest Group on Programming Languages.
- **Participant, Swedish National Hacking Team**
Bootcamp: Preparation for ECSC competition against 20+ countries.
- **Board member, KTH Stacken Computer Club:** Attended weekly meetups and presented on programming topics.
- **Competitor, DEFCON CTF Qualifier 2024:** In the NorseCode team via RoyalRoppers and Kalmarunionen in Denmark.

Skills

Natural Languages

se Swedish  us English  + 2 more

Programming Languages



Projects

I have created many projects, including **Programming Languages**, **Websites**, **Games**, **Tools & Libraries**, **Research**, and **much more**. View some of my featured projects and contributions below.



If you are interested to see all of my projects, check them out here:

[Featured Projects](#)

[Github Profile](#)

[Blog Posts](#)

Experience

IT-Specialist

Swedish Defence Agency

2022 - present

IT specialist at a Swedish cyber defense government agency and expert authority under of the **Ministry Department of Defence**.

Software Consultant

Willsoft

2021

I started my own consulting company, **Willsoft**, providing varying IT and software development services to small and medium-sized businesses.

Software Developer

Alex Therapeutics

2021 - 2022

Worked as a Software Developer at **Alex Therapeutics** in the development of a digital KBT therapy platform for mental health. I worked with the main full-stack product (**React** frontend and **Java Spring Boot**) and **developed an internal CMS tool** aiming to simplify in-app content updates and connect language translations.

Research Assistant

Royal Institute of Technology (KTH)

2020 - 2023

Contributed to the **Miking** research project as part of the **core compiler backend team** led by **David Broman** as an **undergraduate student**. I developed the compiler to extend the application domain to include **web browser and native JavaScript execution environments**.

Teaching Assistant

Royal Institute of Technology (KTH)

2019 - 2023

Working as a Teaching Assistant (TA) in: **Introduction to Java, Programming II, Network Programming, Operating Systems, Interaction programming and dynamic web, Program Development for Interactive Media**,

Private Tutor

Superprof

2019 - 2022

Private tutoring in Programming and Mathematics at **Superprof** for high school and university students in Stockholm.

Full-Stack Consultant

Connected Minds

2019

Full-Stack Developer at **Connected Minds** a Swedish consulting company. I worked on the official website using **React** and **Node.js** and integrated a **CMS** for easy updates. Experience with **UI/UX design, SEO optimization** and **Google Analytics**.

University

Royal Institute of Technology (KTH)

2019 - 2024

Studying **Computer Science** and Engineering at the Department of the School of Electrical Engineering and Computer Science (EECS).

Systems Engineer Consultant

Fairyscope

2017

Fairyscope, a Swedish startup that developed a mobile app and cloud service for sharing information at exhibitions and trade fairs. I developed **backend** systems and **APIs** for generating custom stylized QR codes and managing user data.

University

Örebro University

2017 - 2019

Studied on masters level in Computer Science at **Örebro University** in parallel with High School.

Courses included: **Algorithms and Data Structures**, **Software Engineering**, **Operating Systems**, **Computer Networks**, and **Mathematics**.

Junior Backend Developer

Mjukvarufabriken

2016 - 2019

First programming job at **Mjukvarufabriken** as a Junior Developer. I worked on a mobile app in **C#** and **ASP.NET** for **HEAB** to make routine vehicle inspections easier. As well as other software systems engineering-related work.

View my full resume at: williamr.dev/resume.