William Rågstad

Senior Systems Engineer / Software Developer / IT-Security Specialist



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Contact me

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About Me

Started programming at 10 and have been passionate about it ever since. I got my first job when I was just 16 years old. Today I possess expert knowledge in modern systems development, compilers, theoretical computer science, IT and-cybersecurity.

Early university studies at ORU during high school. At KTH, I worked as a teaching assistant and research assistant while still an undergraduate student. Even taught my student peers while taking the same classes myself. I was recognized as an honor student in my class at graduation, receiving commendations from numerous teachers.

I enjoy spending time with **family and friends**, working out at the **gym**, reading **books** and **research papers**, playing **cello** and **online games**. I'm currently deep-diving into **Programming Language Design**.

I am excellent at **creative problem-solving** and enjoy **challenges** with **learning** opportunities. I aim to be **considerate**, **kind**, **attentive**, **thorough**, **curious**, and **open-minded**.

I can build anything, from high-level architectural diagrams to robust, pragmatic, and secure implementation, thanks to the broad skills I have acquired in the industry and academia.

Education

Bachelor of Science

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).

Part-time

Örebro University (ORU)

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**.

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 in: Ethical Hacking, Programming Paradigms, Programming II, Network Programming, Operating Systems, Interaction Programming, Introduction to Java,

Private Tutor

Superprof

2019 - 2022

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

Full-Stack

Connected Minds

2019

Consulting 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**.

Systems Engineer

Fairyscope

2017

Consultant at 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.

Software Developer

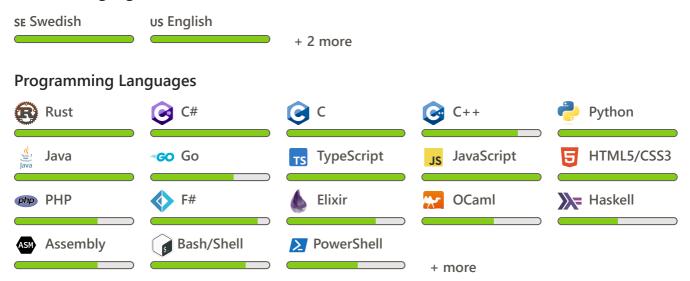
Mjukvarufabriken

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.

Skills

Natural Languages



Interest Areas

My main focus is on **Programming Languages**, **Software Development** and **Cybersecurity**. However, I often explore related areas including **Compiler Construction**, **Interaction Nets**, **Category Theory**, **Type Theory**, **Logic**, **Formal Methods**, **Functional Programming**, **Systems Programming**, **Software Architecture**, **Networking**, **Operating Systems**, **Cybersecurity**, **CTFs**, **Cryptography**, **Web Development**, **Game Development** and *much more*.

Highlights

I have participated in various **competitive programming** contests, **hackathons**, **startups**, and **CTF** competitions playing with the **Swedish National Hacking Team** and **RoyalRoppers**, the Swedish elite team. Got into IT-Security at high school, played CTF competitions in the **national team** and with RoyalRoppers

- Creator, Programming
 Languages: Designed and implemented interpreters and compilers for Lento, Web X, and mini, among others.
- Board Member, KTH Stacken
 Computer Club: Attended
 weekly meetups and presented
 on programming topics.
- Participant, Swedish National Hacking Team: Preparation for ECSC competition against 20+ countries.

- Compiler Team, Miking: A framework for constructing efficient domain-specific languages.
- **Organizer**, Undutmaning CTF **2023**, **24**, **25**: Technical project manager for the website, infrastructure, and challenges.
- Competitor, DEFCON CTF
 Qualifier 2024: In the NorseCode
 team via RoyalRoppers and
 Kalmarunionen in Denmark.

- Member, ACM SIGPLAN:
 Association for Computing
 Machinery's Special Interest
 Group on Programming
 Languages.
 - CTF Team Member,
 RoyalRoppers: Expertise in reverse engineering, web, network, binary exploitation, cryptography, and more.

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