



# Guðjón Hólm

## Sigurðsson

SOFTWARE ENGINEER

Computer scientist who works well in a team, with a passion for software development whether it is for the web, desktop, phone, or other devices.

### EXPERIENCE

#### SOFTWARE ENGINEER

Tern Systems ehf • 201, Kópavogur | December 2021 - Present

As part of a two-person development team, I worked on the TAMS AMHS and ROFDS projects, modernizing legacy C++/Qt applications by migrating them from 32-bit RedHat 6 to 64-bit CentOS 8.5 and Rocky Linux 8.10. We designed a new installation process and built custom Linux distributions, automating OS and software deployment. To streamline development, we integrated the projects into Jenkins for automated builds and releases. Working closely with a product manager and later testers, I gained expertise in Linux, C++, CMake, Networking, Jenkins, Docker, VMWare, VirtualBox, Bash scripting, Ansible, and AsciiDoc. Additionally, I developed and released the *Sheller* VS Code extension to simplify Bash scripting, available on the Visual Studio Marketplace <https://marketplace.visualstudio.com/items?itemName=guttih.sheller>

#### SOFTWARE ENGINEER

Advania ehf • 105, Reykjavík | May 2016 - December 2021

I started as a front-end web developer before transitioning to back-end programming, gaining expertise in JavaScript, C#, C++, Java, NestJS, GraphQL, and React, among other technologies. During my time at Advania, I worked as a contractor for Íslandsbanki, Síminn, and Valitor (now Rapyd), with most of my work focused on C# development across both front-end and back-end systems. At Valitor, I spent two years working on C# back-end services and desktop application development. Additionally, I contributed to the *Product Catalog Web Service* for island.is (<https://island.is/s/stafraent-island/vefthjonustur>) and co-authored a *development manual for web services*, available at <https://island.is/s/stafraent-island/throunarhandbok>

### CONTACT

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### EDUCATION

BSc in Computer Science  
Reykjavík University  
102, Reykjavík

### SKILL

#### TECHNICAL EXPERTISE:

- Web development
  - front-end & back-end
- Desktop application development
- Phone application development
- Device (IOT) development
- Linux

#### PROGRAMMING LANGUAGES:

- C++
- C#, WPF & .NET
- Java
- JavaScript & TypeScript
- Python
- Bash
- SQL
- HTML, CSS



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SOFTWARE ENGINEER

### EXPERIENCE

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#### ASSISTANT TEACHER IN WEB PROGRAMMING II

Háskóli Reykjavíkur • 102, Reykjavík | January 2016 - December 2017

#### ASSISTANT TEACHER IN DATABASES

Háskóli Reykjavíkur • 102, Reykjavík | Ágúst 2016 - December 2017

#### OWNER

Undri ehf • 260 • Reykjanesbær | 2001 - 2017

Various tasks as happens in small companies. Was responsible for sales, marketing, accounting, quality systems, programming, and maintenance of the computer system.

#### SOFTWARE DEVELOPE

Netverk ehf • 105 • Reykjavík | 1998 - 2001

I worked in the software development department, primarily using C++ for both window and console applications. My main project was developing a GPS Server that tracked ships' locations via GPS devices, stored data in a database, and allowed access through SQL commands via email. I also contributed to GPS Retriever, a tool that enabled ship owners to track their vessels via satellite/email. Additionally, I developed a website and WAP applications for the company's product, WapStar, and worked on installation software and automating build processes. I was also responsible for reviewing and rebranding all company software for various customers.

#### PREVIOUS EXPERIENCE

Seaman, Mate, Various companies | 1989 - 1997

Fish Processor, Various companies | 1984 - 1988

### EDUCATION

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#### BSc in Computer Science

Reykjavik University • 102, Reykjavík | 2014 - 2016

Worked as an Assistant Teacher in Web Development II and Databases during my studies and for one semester after joining Advania.

#### Computer Programming

Technical College (Industrial School) • 101, Reykjavík | 1996 -1998

#### 350-tonne Skipper's License

Technical College (Seaman's School) • 101, Reykjavík | 1991 -1992

### INTERESTS

My main interest is IoT programming. I run the Arduino Iceland web group on Facebook, which has over 1,300 members: <https://www.facebook.com/groups/arduino> is. I also share videos of my projects on YouTube: <https://www.youtube.com/guttih>, <https://www.youtube.com/user/arduinois>. My GitHub showcases many of my creations: <https://github.com/guttih>. One of my projects is a wifi-controlled water-mixer for my hot tub, where I designed the PCB, assembled it, and wrote the software to control valves and read temperature/pressure sensors. You can find it here: <https://github.com/guttih/watermixer>. My latest project is a pet food dispenser, available on GitLab: <https://gitlab.com/guttih/food-dispenser>.

### REFERENCES

Heimir Örn Hólmarsson  
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