

ERNIR ERLINGSSON

Computer Engineer and Software Scientist

INFO

PHONE

+49 17624720456

EMAIL

ernire@gmail.com

SKILLS

Software Developer/Engineer

IT Project Management

High Performance Computing

Deep Learning / Machine Learning

App and Web Development

Cloud IaaS & PaaS

Databases

Software Security & Cryptography

Academic Research

Student Mentor/Supervisor

Course/Workshop Supervisor

Public Speaker

PROFILE

A versatile Icelandic software engineer whose professional experience spans two decades in both industry and academia in several countries.

EMPLOYMENT HISTORY

HPC/DL/ML Researcher, DEEP-EST

International

2017 — 2020

Co-designed a novel heterogeneous HPC prototype in a major European HPC research project. Developed new and/or improved machine and deep learning algorithms tailored for the system and exascale computing. Worked with C/C++, MPI, OpenMP, CUDA, OpenCL, Python, Tensorflow and Keras. Used different compilers, Slurm, Git, and performance tools, such as Valgrind, Paraver, VTune. Worked with state-of-the-art hardware, e.g. top CPUs, GPGPUs, FPGAs, IB, DCPMM, and other NDA protected hardware prototypes.

Extensive collaboration with staff from multiple research partners, such as Intel and the Jülich Supercomputing Center in Germany. Workshop supervision on HPC and machine learning, research papers and conference presentations. Was asked to serve as the interim research project deputy of DEEP-EST in 2020.

Founder/CEO/CTO, Ymir Mobile ehf

International

2008 — 2020

Software development services, consultation, and customer relations for numerous domestic and international clients, mostly related to the conception and realization of mobile apps and related infrastructure and services. Worked on a vast array of different technologies and software stacks, back- and front end, both solo and in a team as a member, leader, or manager. Had a minor or major part in the professional development of 30+ mobile/desktop apps and web pages/services that have served over a million unique users.

See the clients section in this CV for a selection of Ymir's clients and the software tools used.

LINKS

ernire.org

[DEEP Projects](#)

LANGUAGES

Icelandic



English



German



Swedish



Software Engineer, Fridrik Skúlason ehf

Iceland

2003 — 2005

Co-created automated tools for the analysis or removal of software viruses. Gained experience using C/C++, Perl, and machine language disassemblers.

Software Engineer, Softis hf

Iceland

1999 — 2001

Produced numerous small desktop applications; using Pascal, Delphi and Java; that employed a special communication layer built on top of TCP/IP.

EDUCATION

Computer Science Ph.D, University of Iceland

Iceland

2017 — 2020

Computer Engineering M.Sc, KTH, Royal Institute of Technology

Sweden

2005 — 2008

Computer Engineering B.Sc, University of Iceland

Iceland

1999 — 2003

INTERNSHIPS

Software Engineer, Green Border Technologies (now Google)

USA

2002 — 2002

SELECTED CLIENTS

Müller & Wulff

Germany

2012 — 2020

Worked for numerous German clients in collaboration with M&W GmbH as their sub-contractor. Was responsible for multiple projects as project manager, programming-lead and client liaison, with German as the working language. Front and back end programming for web and Android using Java/Kotlin, Javascript, GWT, Dart, Angular, Firebase,

HTML/CSS, MySQL, PostGRESQL, and more. Managed a team of up to 6 people of developers, designers, and QA specialists. German clients included app startups, established industrial corporations, and organizations overseeing national parks.

<https://mueller-wulff.de/>

Briar Project

UK

2015 — 2017

Co-designed and co-implemented a very secure Android Java messaging client and its J2SE foundation as a member of a highly skilled international development team. Cryptography, Databases, Tor, P2P (via Bluetooth and WiFi direct).

<https://briarproject.org/about-us/>

Íslandsbanki

Iceland

2009 — 2016

Extensive Android Java programming with an emphasis on software security. Sole client developer, with over 50k daily users performing secure bank transactions. Facilitated the design and QA process of both the iOS and Android applications.

<https://www.islandsbanki.is/en>

Mobile Interaction

Sweden

2009 — 2012

Worked for numerous Swedish clients with Mobile Interaction AB as their sub-contractor. Served on multiple app projects for numerous clients in retail and hybrid businesses, with Swedish as the working language. Programming in Java for Android and J2ME supported devices, and also Symbian for Nokia devices.

<https://www.mobileinteraction.se/>

Reykjavík City

Iceland

2008 — 2010

Served as the technical event manager partner of Reykjavik city. Created web-pages using HTML, CSS, GWT, JSP, PHP and mobile applications using J2ME. Co-built a digital event data management system using the Play framework, JSON and MongoDB, which was used by Reykjavik and its partners to register and edit data for major public events attended by up to 100k visitors.