CV - Albin Stigö

Nationality:	Swedish
Date of birth:	1983-08-31
Languages:	Native Swedish, fluent English, intermediate Danish and Portuguese.
Email:	albin.stigo@gmail.com

Web:	https://sm6wjm.se
GitHub:	https://github.com/ast
Stack Overflow:	https://stackoverflow.com/users/982608/albin-stigo

Senior Software Engineer, focus on real time signal processing.
Doctor of Medicine, a specialist in anesthesiology and intensive care.
Why do one thing when you can do two?

Software engineering experience

- ‡ 2023.11 → ongoing
  - ○ Senior software engineer. Sensrad AB. https://www.sensrad.com.
    - ■ C/C++/Golang/Rust. Advanced signal processing/perception for 4D automotive radar. Linux, ROS2, DDS, Docker, IP/Ethernet networking/routing.
- ‡ 2022.03 → 2023.10
  - ○ Senior software designer. Qamcom Technology and Research AB.
    - ■ C++/C/Golang/Python development. Advanced signal processing/perception for 4D automotive radar. Linux. ROS2. Docker.
- ‡ 2016.06 → 2019.01
  - ○ Software engineer. Pluspole AB. Part time.
    - ■ DSP algorithm development in fixed and floating point using Python with NumPy, SciPy, and Matplotlib. Embedded implementation in C. Design and testing of electronic hardware.
- ‡ 2011 →
  - ○ **Open Source projects** (selected):
    - ■ https://github.com/gnuradio/volk. (C/C++/ARM assembly) VOLK is the Vector-Optimized Library of Kernels for GNU Radio. I have written most of the ARM-optimized kernels increasing performance as much as 14x.
    - ■ https://github.com/ast/SoapyAirspy. (C++) SoapySDR driver for the Airspy Software Defined Radio.
    - ■ https://github.com/ast/SoapyPlutoSDR. (C++) SoapySDR driver for the PlutoSDR.
- ‡ 2011 → 2015
  - ○ **Commercial projects** (Trifork Software) where I did all front and backend development:

- http://diagnosekoder.dk (Linux). Search engine web application for Danish ICD-10 codes.
  - Frontend: html5, JavaScript with jQuery and backbone.js.
  - Backend: Linux, Nginx, Golang, Elasticsearch, Python and shell script.
- UfL & DMJ (iOS). Official Danish Medical Journal iPhone and iPad application.
  - Frontend: Objective-C, Core Data.
  - Backend: Linux, Nginx, Python with Django, Postgresql.
- Instruksen.dk (iOS). Search engine for medical treatment guidelines.
  - Frontend: Objective-C, C, SQLite.
  - Backend: Linux, Nginx, Python and shell script.
- DCS (iOS). Official iPhone application of the Danish Society of Cardiology
  - Frontend: Objective-C, SQLite.
  - Backend: Linux, Nginx, Python with Django, PostgreSQL, shell script.
- Diagnosekoder (Android). Search engine application for Danish ICD-10 codes. Java, SQLite.

Healthcare experience

- ₿ 2020.09 → 2022.03
  - Specialist, anesthesia and intensive care, Sahlgrenska University Hospital, Sweden.
- ₿ 2016.08 → 2020.08
  - Specialist training in anesthesiology and intensive care, Sahlgrenska University Hospital, Sweden.
- ₿ 2016.03 → 2016.06
  - Primary health care physician, Hospital of Helgeland, Mo i Rana, Norway.
- ₿ 2014.05 → 2015.10
  - Specialist training in anesthesiology and intensive care, Regional hospital of Silkeborg/Viborg, Denmark.
- ₿ 2013.05 → 2014.04
  - Junior physician, Department of Orthopedic Surgery, Aarhus University Hospital, Denmark.
  - Junior physician, primary health care, Aarhus University Hospital, Denmark.
- ₿ 2007 → 2013
  - Curator of anatomical specimens, Department of Anatomy, Aarhus University, Denmark.
- ₿ 2006 → 2008
  - FADL temp nursing agency, Aarhus, Denmark.
- ₿ 2006
  - Teaching Assistant, Department of Anatomy, Aarhus University, Denmark.

Research

- 2013.08
  - Visiting researcher. Brain Institute Bioinformatics group. Federal University of Rio Grande do Norte, Brazil.
- 2011.08 → 2011.12
  - Research assistant. Laboratory of Space Medicine and Space Pharmacology. Magdeburg University Clinic, Germany.
- 2009 → 2010
  - Research Assistant. Department of Anesthesiology and Intensive Care, Aarhus University Hospital and Aarhus University School of Engineering, Denmark.

Publications

- [*An automated in vitro model for the evaluation of ultrasound modalities measuring myocardial deformation.*](#) Cardiovasc Ultrasound. 2010 Sep 7;8:40. doi: 10.1186/1476-7120-8-40.

University Education

- 2005.08 → 2013.01
  - Doctor of Medicine, Aarhus University, Denmark.

Courses

- 2017.04
  - Pre-Hospital Care for anesthesiologists.
- 2014.10
  - Advanced Trauma Life Support (ATLS)