

CONTACT INFORMATION	Björn Jensen-Urstad Skeppargatan 96 115 30 Stockholm Sweden	Mobile: +46-70-0222948 E-mail: bjorn.jensen.urstad@gmail.com Github: <a href="https://github.com/b3rnie/">https://github.com/b3rnie/</a>
QUALIFICATIONS AND INTERESTS	Distributed systems, Erlang/OTP, Scala/Java, embedded systems, low power embedded, software development, scaling, databases, protocols, functional programming, low level programming, fault tolerance, network protocols, eventual consistency, software architecture, message queues	
AVAILABILITY	• Geographic location is flexible, but there is preference for Stockholm, Sweden	
EDUCATION	<b>Royal Institute of Technology</b> , Stockholm, Sweden  B.S., Computer Science, 2006-2010, specializing in software development  MS.S., Computer Science, 2002-2004, four semesters out of 9  <b>Hersby gymnasium</b> , Lidingö, Sweden  Upper secondary school, 1997-2000	
PROFESSIONAL EXPERIENCE	<b>TrueAccord</b> , Stockholm, Sweden/San Francisco, US Remote work from Stockholm with periodic visits to San Francisco  <u>Engineer</u> <b>September 2014-</b> <ul style="list-style-type: none"><li>• Worked on the core infrastructure using Scala. Major contributions include: developing a scheduling service to contact debtors at the optimum time, a rule system to systematically deal with the compliance and regulations in debt collection, automatic dispute handling, components to throttle and rate-limit requests to external services.</li><li>• Numerous integrations and business features.</li></ul> <b>Self employed</b> , Stockholm, Sweden  <u>Consulting</u> <b>August 2013-</b> <ul style="list-style-type: none"><li>• Designed, implemented and maintained a batch processing system using Zookeeper, Riak and Erlang/OTP. The system was built to scale and be able to handle terabytes of data each day.</li></ul> <b>Kivra AB</b> , Stockholm, Sweden  <u>Engineer</u> <b>March 2013 to September 2013</b> <ul style="list-style-type: none"><li>• Architecture, development and maintenance of the services that made up Kivra's system.</li></ul> <b>Klarna AB</b> , Stockholm, Sweden  <u>Engineer</u> <b>March 2010 to January 2013</b> <ul style="list-style-type: none"><li>• Extended an existing transactional database (Mnesia) with features to allow parts of the data to be shared (read/written) in an eventual consistent manner. This involved writing a framework to allow easy transformation of keys/values between two very different databases with different availability requirements, adding vector clocks to an existing database schema and mechanisms to transport/sync data over RabbitMQ. The databases are the core of a business with a monthly revenue of 200 million USD</li><li>• Design and implementation of the alpha version of Klarna's checkout</li><li>• Experiments with automatic fraud detection</li></ul>	

- Rewrote and replaced Klarna's old fraud checking system with a DSL accessible through a web GUI. This gave staff more freedom to express what they want and the possibility to change rules without involving developers
- Lots of minor features for the business such as integrating with new credit check agencies.

**Posten AB**, Stockholm, Sweden

Mailman

**2001 to 2002 and 2004 to 2005**

## MEMBERSHIPS

Housing Cooperative, Bjornligan

**2007-2010**

- Board of directors and responsible for the economy

EFF (Electronic Frontier Foundation)

**2010-**

## SERVICE

Written several open-source projects (see github), including:

- Crontab implementation in Erlang
- Unique id generator in Erlang
- Various components for integrating with Apache ZooKeeper
- NNTP fetcher/assembler in Perl
- Socks 4/5 proxy in C++ (single thread using nonblocking IO)

## SKILLS

Software development:

- Worked with Scrum, Kanban, Git, Subversion, test driven development, property based testing

Computer Programming:

- Excellent knowledge of Erlang/OTP and functional programming
- Good knowledge of Scala, Java, Ruby, C, C++, Perl
- Experience with JavaScript, Python, Haskell

Information/Internet Technology:

- Written my own TCP/IP stack running on a 8 bit microcontroller. From transport layer up to application layer (Ethernet, ARP, IP, ICMP, TCP, UDP). Implemented a simple webserver and bittorrent tracker on top of it
- Written servers and or clients for FTP, HTTP 1.0/1.1, SMTP, DNS, POP3, Jxta, NNTP, Irc, BitTorrent and Socks 4/5 as well as other less known protocols.
- Done web development in PHP, Ruby on Rails, AngularJS, Perl, CGI

Operating Systems/Software:

- GNU/Linux user since 1996, experience with OpenBSD and Solaris
- Experience with Apache, PostgreSQL, Bind, Riak, Rails, Spring, JPA, Hibernate, RabbitMQ, ZooKeeper, HAProxy

Hardware/Embedded systems:

- Experience with PCB design and creation in CadSoft Eagle (2-sided), digital electronics, low power embedded systems, Microchip PIC 8 bit family

## EXTRA-CURRICULAR ACTIVITIES

My current passion is rock-climbing, in particular sport-climbing and trad-climbing. Diving has also been a big interest in my life for the last 7 years and I enjoy all parts of it, from advanced cave-diving and deep-diving to educating new divers.

## OTHER

I speak/write Swedish fluently and have some German skills. I have a drivers licence.