CV — Alexander Funcke

Contacts

Full name:	Alexander Nicolaus Valentino Funcke
Born:	1982-12-24, Stockholm, Sweden
Driving licenses:	Car, motorbike and boating.
Nationality:	Swedish
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Skills

Languages: **Python**, **Go**, **C**, **Javascript ES6/NodeJS**, R, Scheme/Lisp, Java, PHP, Pascal, Matlab, **Jinja2**, XML/HTML/CSS, XSLT, NetLogo, bash, awk, make and LaTeX.

Data/ML: **Scipy/Numpy**, **Pandas**, **TensorFlow**, Sci-kit, **Scrapy** and Jupyter.

Backend: **Django**, Graphene, Channels, Auth0 and DRF.

Frontend: **React**, **Relay**, MUI, Typescript, Gatsby, Lerna, Storybook, Babel and GTK.

Protocols: Google PubSub, Protobuf, gRPC, **GraphQL**, REST, Websocket, i2c, NMEA2000, JWT, TLS, LDAP, ISO-8583, DNS, HTTP, TCP/UDP, and IP.

DevOps: Google Cloud Platform, VPC, Docker, **Kubernetes**, **Istio**, Helm, Grafana, Sentry, Gitlab CI/CD, Git and Jenkins.

Storage: PostgreSQL, MySQL, Redis, Mongo, Datastore, Bigquery, S3/Google Storage, Berkeley DB, and NFS/AFS.

Other: People Management, **Software Architecture**, Project Management, Network Security, System administration, Mathematics, Game Theory, Mechanism Design, Econometrics, Agent-Based Modeling, Experiment Design, 12 Factors, Pre-sale, Polticial Philosophy, Epistemology and Writing (English and Swedish).

History

CEO and Founder 2019-12 — 2021-06
at *ery Inc* *New York, NY, U.S.*

Multi-frontend and multi-player platforms for no-code implementation of online tasks, such as behavioral experiments. Most notable of our large customers is a Gates Foundation project working on sanitation in rural India where we used text-messaging and payments through mobile phone top-ups. That said, the bulk of our customers are academic institutions and thinktanks that use either the web or mobile app frontends. Furthermore, we collect data and produce data-driven reports. E.g., the world's first global index of the sharing economy, the Timbro Sharing Economy Index.

Postdoctoral Fellow   2014-08 — 2019-07
at *PPE and The Wharton Business School, University of Pennsylvania*   *Philadelphia, PA, U.S.*
Researched the mathematical underpinnings of social norm change as part of the research group headed
by Cristina Bicchieri. Created and taught courses on mathematical modeling of social phenomena and
agent-based modeling at Wharton and in the Philosophy, Politics, and Economics program.

Network Fellow   2012-08 — 2013-07
at *Edmond J. Safra Center for Ethics, Harvard University*   *Cambridge, MA, U.S.*
Worked on institutional corruption as part of the research group headed by Lawrence Lessig.

Visiting scholar   2011-08 — 2011-12
at *Center for Public Choice, George Mason University*   *Fairfax, VA, U.S.*
Based at the Center for Public Choice I had an opportunity to study political economy in the public
choice tradition.

Co-founder   2012-06 — 2015-11
at *Migro*   *Stockholm, Sweden*
A foundation promoting the principles of free migration and open borders, as well as practical policy
changes to make it easier to immigrate to Sweden.

Blogger   2007-03 — 2012-06
at *Skiften.se*   *Stockholm, Sweden*
Contributor to group blog on disruptive technology and its relation to cultural and societal evolution.

Political Editor   2009-08 — 2009-11
at *Norrköpings Tidningar AB*   *Norrköping, Sweden*
Contributing op-eds and columns to the oldest newspaper in Sweden, founded in 1752.

Consultant and Founder   2007-09 —
at *Zeta Delta OÜ*   *Tallinn, Estonia*
A small consultancy that has taken on projects in the areas of network security and software develop-
ment, as well as in economic and philosophical research.

CTO   2005-01 — 2007-06-15
at *MARA Systems Group*   *Stockholm, Sweden and Pto. Ordaz, Venezuela*
As the CTO of the MARA Group, I was responsible the technical directions MARA was to develop
in, given the CEO and board's constraints. As well as for leading the progress towards that goal. I
also had the overall responsibility for the group's ICT-environment.

Interim executive country manager   2006-05 — 2007-06-15
at *MARA Systems Group*   *Stockholm, Sweden*
In this role, I was responsible for the daily operation of the Swedish office, which included admi-
nistrative, economic, and juridical day-to-day matters, as well as planning and following-up on the
non-technical employees.

Project manager and Software architect 2004-08 — 2005-01
at *MARA Systems Consulting AB* *Stockholm, Sweden*
I architected and managed the largest R&D project in the MARA group, the GateMARA. I also
acted as a developer for some of its components. Another noteworthy project was a web-banking
project, where I again acted as a developer too, implementing a high-performance and flexible XML
to ISO-8583 proxy.

Senior Developer 2003-11 — 2005-01
at *MARA Systems Consulting AB* *Stockholm, Sweden*
In the role of developer, I worked with existing MARA network-security appliances to develop features
pertaining to proxying, briding, routing and firewalling. In the role of pre-sales, I worked in the
Stockholm area towards large companies.

Consultant and Founder 2000-01 — 2004-08
at *Funcke Datorkonsult* *Stockholm, Sweden*
Software projects on all levels, from kernel device-drivers to GUIs for handhelds, and with customers
in e.g. ICT, medicine and Hi-Fi audio.

Developer 1999-04 — 2003-11
at *Nano System AB* *Stockholm, Sweden*
At Nano Systems, I worked on projects related to the NSC Geode-based NM266-board. My main
contribution was the development of device drivers for the NM266 to FreeBSD and NetBSD, as well
as maintaining the GNU/Linux support.

Board Member 1998-10 — 2005-11
at *EurOpen.SE* *Stockholm, Sweden*
The Swedish Unix Users Group.

Network consultant 1998-01 — 1999-01
at *Daemon Consulting* *Stockholm, Sweden*
I worked with IPSEC compatibility issues in Microsoft products and their related helper systems, with
the aim of integrating with OpenBSD's implementation.

Degrees

Ph.D. in Applied Mathematics 2010 — 2015
at *the Department of Mathematics, Mälardalen University* *Stockholm, Sweden*

M.Sc. in Pure Mathematics 2002 — 2009
at *the Department of Mathematics, Stockholm University* *Stockholm, Sweden*

References

Professor Cristina Bicchieri, Philosophy, Politics and Economics, University of Pennsylvania,
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Dr. Mark Somos, Research Director, Edmond J. Safra Center for Ethics, Harvard University, +1 (617) 496-1496

Professor Steven O. Kimbrough, Wharton School of Business, University of Pennsylvania, +1 (215) 898-5133

Mr. Flavio Pescuma, Former CEO of the MARA Systems Group, +58-414-0941595