

# Fabian Popa

@fabpopa

## Experience

- 10+ years developing highly usable software and hardware products
- primary daily development in C, JavaScript, and the latest web standards
- confident use of POSIX fundamentals including shell scripting and system calls
- diverse exposure to languages incl. Rust, Go, Python and frameworks incl. React
- informed use of security best practices incl. technical and social attack vectors
- up to date on distributed systems and networking topics incl. IPv6, HTTP2, QUIC
- experience programming 32bit ARM and 8bit AVR embedded systems
- designed, manufactured, and assembled electronic PCBs from scratch
- designed and rendered high-fidelity CAD models with high manufacturability
- empirical approach to improvement incl. metrics exploration, A/B testing, profiling
- passionate about usability and design throughout the complete product experience

## Employment

Ubuntu / USA & UK / Senior Front End Engineer (2015 – 2016)

- developed online services for the new Snappy package manager and IoT ecosystem

Fami Electronic / RO / Engineering Lead (2014 – 2015)

- developed touchscreen payment terminal for banknotes, credit cards, and barcode vouchers with 24h uninterrupted weatherproof operation

Siemens / RO & DE / Product Manager (2012 – 2014)

- directed team of 7 in redesigning the medication feature of the i.s.h.med hospital information system with a focus on usability and patient safety (widely in use at the major hospitals in DE, AT, and CH)

Google / USA / Software Engineer (2011 – 2012)

- web developer working on youtube.com and cms.youtube.com
- implemented playback and analytics features with global reach

Süddeutscher Verlag / DE / Front End Developer (2008 – 2009)

- cut page load time on wuv.de by 50% (3 million page views / month)
- developed internal analytics dashboard with key business metrics

## Academic Research

Localization / Google / Master's Project (2011)

- mapping out individuals in a room using microphones in personal devices
- research project looking into new social functionality for Google+

Instant / Bachelor's Project (2007 – 2009)

- semantic, scalable, and fault-tolerant personalized news service
- recommender scored 562% more articles read vs. random suggestions

TUM University Information Service / extracurricular (2007 – 2008)

- networked multimedia information system with 24h operation across 3 campuses
- news, subway departures, and cafeteria schedule specific to each display location

## Education

Carnegie Mellon University / USA / MSc. in Information Technology (2009 – 2011)

- GPA 3.77 (94.25%)

Technische Universität München / DE / BSc. in Information Systems (2006 – 2009)

- thesis "Interest-based Content Filtering" – grade 1.3 (approx. 93%)