

“Kevin Gni”

Making the digital world more secure, reliable and accessible

bini00001@stud.uni-saarland.de — or send me a message on LinkedIn ;)

EDUCATION

Universität des Saarlandes

MSc. in Computer Science; Saarbrücken

Apr 2023 - now

New York University

BSc. in Computer Science; BSc. in Interactive Media Arts; New York City & Shanghai

Sep 2014 - May 2018

LANGUAGE PROFICIENCY

English PROFICIENT | C2: IELTS 8.5, Listening 9, Reading 9, Writing 8, Speaking 8 *best o' 2*

Old English COMPETENT | *capable of reading Beowulf and the Exeter Book (with dictionary from time to time)*

Shanghainese & Mandarin Chinese MOTHER TONGUE

Deutsch | *working hard on it now*

MAJOR RESEARCH AND PROFESSIONAL EXPERIENCE

Research Assistant (HiWi)

Nov 2023 - now

With Prof. Wouter Lueks at CISPA (Helmholtz Center for Information Security)

- Researching and developing tools for analysing Tor traffic
- Implementation of advanced cryptographic protocols on smartcards incl. anonymous and verifiable transaction scheme utilising recursive oblivious RAM (ORAM)
- Supporting the course *Privacy-Enhancing Technologies*: subjects include homomorphic encryption, private information retrieval, anonymous communication, differential privacy, etc.
- Building an automated submission and grading platform for the aforementioned course

Research Associate

Sep 2018 - July 2019, Jun 2020 - late 2021

With Prof. Olivier Marin on *Reliable Distributed Systems*

- Comparative study of experimental ML-driven failure detection algorithm vs traditional ones on efficiency and accuracy
- A distributed database for geospatial data tailored for cloud infrastructures with GeoTrie
- Automated building and deploying distributed service on HPC and commercial IAAS

Payment Engineer

Nov 2019 - Oct 2022

Thales China, Shanghai

- Building secure card payment solutions (VISA, Master, JCB, etc.) for financial institutions: CUB, BSH, Cathay, etc.
- Designing and deploying on-premise, secure data processing systems: secure exchange and storage, transparent en/decryption, key management, data protection law compliance, etc.

Teaching Assistant

Jan 2019 - early 2022

With Prof. Olivier Marin for course *Operating System, Distributed System & Capstone Project*

- Leading review sessions and office hours, answering questions and offering academic support
- *Operating System* covers topics incl. processes and threads, context switching, scheduling, logical memory management, MMU, paging and address translation, hardware resource management, file system, network stack, etc.
- *Distributed System* covers topics incl. linearisability, message passing, distributed shared memory, data consistency and coherence, consensus, election and quorum, fault tolerance and detection, etc.

SOCIAL AND HUMANITARIAN WORK

Research Assistant

Nov 2018 - May 2019

With Prof. Lena Scheen

- Interview with old Shanghai city residents whose houses soon to undergo the so-called *Demolition and Relocation*
- Study on the effect of such urban relocation scheme on the life of the city's indigenous residents, and consequentially the impact on the city's indigenous language and culture

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Social activist

Late 2014 - now

For the preservation and the promotion of the Shanghainese language (Wu Chinese) and culture

- Developing input methods for Shanghainese and other Wu language on PC and on mobile devices
- Helping set up and operate an online database of audio and video archives of Shanghainese, as well as historical and modern folk documents on indigenous Wu culture

Volunteer worker

Ca. 2012 - now

For the local queer/LGBTQ+ community

- Joint-organising the various effort during secondary & higher education to distribute education leaflets, condoms, birth control pills and other protective measures promoting safe sex and women's reproductive rights
- Volunteer work for *Shanghai Pride & Queer and Ally* society at university: organising panel talks, supporting solidarity events, miscellany on-site support, etc.

SKILLS, INTERESTS AND HOBBIES

Digital photography: specialised in portraits w/ EDC incl. Ricoh GR IIIx

Interpreting: consecutive and simultaneous interpretation for private conference and events (en-wuu & en-zh)

Shanghainese writings: transcription of folk songs and stories; translation of foreign-language literature

Programming: C; x86 Assembly; modern C++ (post 11); C#; Java, Scala, Kotlin; Python (w/ numpy, pandas, matplotlib, etc.); common UNIX/Linux tools & bash; experience with common IAAS: GCP, AWS, etc.; Gitlab; Smartcard (Javacard Classic & GlobalPlatform)

Farming (actual, in the field): maize, potato, passionfruit, luffa, chillies, assorted herbs and cornflower, etc.

Novella and fan-fiction writing: some works hosted on Archive of Our Own with kudos

Digital interactive art installation: various pieces with fabric, 3D-printed materials, displays and other computer parts, utilising motion cameras and a range of other environment sensors

LAST UPDATED SEPTEMBER 3, 2024

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