

# Nicolas Tran

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## KNOWLEDGE

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- **Programming Languages:** Python, JavaScript, Bash, Go, Java, SQL, Cypher, C, C#, C++
- **Frameworks & UI:** Django, FastAPI, Express, Node.js, Bootstrap, Jinja2, HTML, CSS
- **Databases:** Postgres, MariaDB, SQLite, Neo4J, Elasticsearch, Redis
- **Infrastructure:** Linux, Docker, Nginx, Apache, Nextcloud, Haraka, Keycloak, LDAP, Postfix, Rspamd
- **Tools:** Git, Vim, PyCharm, OpenSSL, Wireshark, Dig, Curl, MkDocs, Markdown, LaTeX, Typst
- **Spoken Languages:** German (native), English (C2), French (B2)

## EXPERIENCE

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### FULL-STACK DEVELOPER

STEP3IT (ACQUIRED TUXGUARD IN APRIL 2025)

Dec 2021 — Present  
*Neumünster, Germany*

- Built responsive frontend features using JavaScript, CSS, and Bootstrap
- Server-Side API development using Python (Django, FastAPI), Node.js
- Architected, deployed, and automated containerized backend services
- Delivered a C# endpoint security application for Windows, using DNS filtering
- Administered Linux IT infrastructure and maintained internal networks
- Resolved complex technical support requests and troubleshooted system issues

### RESEARCH ASSISTANT, TEACHING ASSISTANT, AND TUTOR

CISPA HELMHOLTZ CENTER FOR INFORMATION SECURITY

Jun 2018 — Oct 2021  
*Saarbrücken, Germany*

- Leading tutorials and grading exercises
- Developing applications and creating exercises/exams for the course curriculum
- Created and analyzed a graph-based model of the Internet with Cypher and Python
- Ported Fast Downward on different forks and a cryptographic SDK to JavaScript + WebAssembly

### MANAGEMENT ASSISTANT FOR IT SYSTEMS

PSC - PORTABLE SYSTEM CENTER

Aug 2014 — Jan 2017  
*Saarbrücken, Germany*

- Customer consultation, technical troubleshooting, employee training, website management

## EDUCATION

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### M.S. IN CYBERSECURITY

SAARLAND UNIVERSITY

Sep 2017 — Apr 2026  
*Saarbrücken, Germany*

- **M.S. Thesis (2026):** Dynamic instrumentation and event aggregation of OpenSSL's Libcrypto for runtime monitoring
- **M.S. Selective Topics:** Secure Web Development, Data Networks, Side Channel Attacks and Defenses, Software Engineering, IT Forensics, Data Protection Law, Machine Learning, Security Testing, Passwordless Authentication
- **B.S. Thesis (2021):** Automated in-browser generation, analysis, and countermeasure selection for UAAGs
- **B.S. Selective Topics:** Web Security, Mobile Security, Physical-Layer Security, Data Privacy, Hacking

### CISCO CCNA ROUTING AND SWITCHING: INTRODUCTION TO NETWORKS

SOCIETY FOR PROMOTION: V. TRAINING CENTER OF COMMERCE HALBERG

Feb 2017 — Feb 2017  
*Saarbrücken, Germany*

- Data services and devices in networks, including protocols, addressing, and subnetting

### MANAGEMENT ASSISTANT FOR IT SYSTEMS

VOCATIONAL TRAINING CENTER OF COMMERCE HALBERG

Aug 2014 — Jan 2017  
*Saarbrücken, Germany*

- Developing, deploying, and maintaining IT systems, networks, and services
- Business processes and operational organization, accounting, and controlling