

# Software Engineer

Senior software engineer and tech lead motivated to join an early-stage startup building meaningful, technically ambitious products. I bring strong expertise in Python, backend systems, and cloud infrastructure, a background in machine-learning research, and a preference for small teams, high ownership, and direct impact.

## Relevant Work Experience

### Tech Lead

Mantra / Cyberguru (Cybersecurity)

5/2025 — present

- Tech lead for a 4-engineer, cross-country team (France / Italy) working in English
- Designed and built a new video-based cybersecurity training product from scratch
- Defined data models and workflows for courses, quizzes, learning paths, and user attribution
- Shaped system architecture: Python / FastAPI, TypeScript / React, microservices, event-driven
- Set up Terraform-based infrastructure, CI/CD, deployments, monitoring

### Software Engineer

Mantra (Cybersecurity)

8/2022 — 5/2025

- Early engineer on Smart Banners, a real-time phishing detection product
- Implemented backend services processing ~3 million emails per day
- Fully-typed Python/FastAPI with strong focus on hexagonal architecture and DDD
- Shipped frontend features in React/TypeScript
- Event-driven architecture hosted on GCP; monitored with Sentry
- Provided technical customer support

### Full-stack Developer

Cogiceo (Cybersecurity)

10/2020 — 8/2022

- Sole full-time developer in a cybersecurity consulting firm
- Built a SaaS platform for automated analysis and vulnerability scoring of Android apps and browser extensions
- Created internal tools (HR, pentest report editor) used daily
- Full ownership across backend, frontend, deployment, and maintenance

### Natural Language Processing Researcher

Strasbourg University

10/2017 — 9/2020

- Specialized in NLP and machine learning, with focus on coreference resolution
- Fine-tuned BERT, one the first Large Language Models, for French coreference resolution (published at [LREC 2020](#), available on [Github](#))
- Developed several open-source research tools for annotation and analysis ([SACR](#), [Coref Conversions](#), [Coref DB](#) and [CRViewer](#))
- Authored multiple [peer-reviewed scientific papers](#) and conference publications
- Taught Python, Linux, statistics and linguistics to Master & Bachelor students

## Education

### Natural Language Processing (Master degree)

Strasbourg University

2017

*Thesis:* developed an end-to-end rule-based coreference resolution system in Python

### French Linguistics (Master degree)

Strasbourg University

2017

*Thesis:* statistical and linguistic analysis of coreference chains in research articles

### Classical studies and French Linguistics (Bachelor degree)

Strasbourg University

2015


### Philosophy (General Academic Studies Degree - DEUG)


Marc Bloch University (Strasbourg 2)


2005

# Bruno Oberle

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## Skills

### Programming

Python (expert),  
TypeScript, JavaScript, SQL,  
Go (learning)

### Backend

FastAPI, Flask, REST, async  
event-driven architectures

### Frontend

React, Redux

### Cloud & DevOps

GCP, Terraform, Docker, GitLab CI/CD

### Data & Infra

PostgreSQL, Firestore, BigQuery,  
Pub/Sub,  
Jupyter, Pandas, Matplotlib


### Quality


pytest, Playwright, Selenium, Gherkin  
mypy, typed codebases,  
clean architecture, DDD

### Monitoring

GCP Monitoring, Logging, Sentry

### Languages

 French: native

 English: fluent

## Scientific publications

### NLP, IA and French Linguistics

**9 peer-reviewed papers** in  
scientific journals and  
international conferences,  
**8 communications** in  
workshops and seminars