Zeno de Angeli

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Education

University College London (UCL) — London, United Kingdom
*Master of Science in Information Security – **Distinction*** — *September 2024 – September 2025*
- Dissertation: Dual-Mode DAG-based Consensus Protocol
- Core modules: Cryptography, Cryptocurrencies, Privacy Enhancing Technologies

University of Sussex — Brighton, United Kingdom
*Bachelor of Science in Computer Science – **First Class Honors*** — *September 2019 – May 2023*
- Dissertation: ML-Based COVID-19 Analysis on Government Policy Effectiveness
- Core modules: Computer Architecture, Data Science, Network Security

Work Experience

Software Engineer — London, United Kingdom
Worldover — *September 2025 – present*
- Developed and maintained full-stack features across front-end and back-end systems
- Integrated **LLMs** into the platform, implementing API connections and optimizing prompt engineering
- Deployed and managed infrastructure on **AWS**, including EC2, S3, Lambda, and Amplify

Full Stack Developer — Lugano, Switzerland
NorthsouthUX — *May 2023 – December 2023*
- Built responsive web applications using **React** and **Node.js**, implementing features from **Figma** designs
- Translated client requirements into technical specifications through stakeholder meetings and iterative feedback

Teaching Assistant — Brighton, United Kingdom
University of Sussex — *September 2022 – January 2023*
- Led weekly lab sessions for 20+ students covering compiler theory, lexical analysis, parsing, and code generation
- Provided one-on-one support for students debugging compiler implementations in Java/ANTLR

Research Assistant — Brighton, United Kingdom
University of Sussex — *May 2022 – August 2022*
- Implemented OCR algorithms using Python and OpenCV to extract text from academic documents
- Tested and refined computer vision models with the help of industry partner **Foxit**

Projects

Dual-Mode DAG-based Consensus Protocol — March 2025 – September 2025
Information Security MSc Dissertation/Thesis
- Developed hybrid DAG-based consensus algorithm in Rust combining **Mysticeti** and state-of-the-art protocols
- Created comprehensive test suites for complex network simulations to validate protocol behaviour
- Optimised transaction processing for **100K+ TPS** with sub-second finality in collaboration with **Mysten Labs**

Machine Learning-Based COVID-19 Policy Analysis — September 2022 – May 2023
Computer Science BSc Dissertation/Thesis
- Scraped and compiled COVID-19 datasets from government sources
- Implemented SIRD epidemiological model with MCMC parameter estimation using **NumPy** and **scikit-learn**
- Visualized policy impacts on R0 values using **Matplotlib**, demonstrating lockdown effectiveness across countries

Custom Functional Language Compiler for RISC-V Architecture — September 2021 – December 2022
Computer Science BSc – Compiler Architecture Project
- Built compiler in **Java** for functional language with CFG parser targeting **RISC-V assembly**
- Implemented RISC-V code generation for arithmetic/logical operations, branches, and function calling conventions
- Generated RISC-V assembly with register allocation, stack frame management, and control flow translation

Technical Skills

Programming Languages: Rust, Java, Python, C, JavaScript/Typescript, PHP, Haskell
Development Infrastructure: Git, Linux/Unix, Docker, PostgreSQL, SQLite, AWS

Language Proficiency

Italian: Native proficiency   **English:** Native proficiency   **German:** Basic proficiency   **French:** Basic proficiency

Certificates

National Cyber Security Center UK Certificate – UCL – Cybersecurity Management & Governance
Junior Research Associate Certificate – University of Sussex – Computer Vision