Zeno de Angeli

London, United Kingdom | zenodea@proton.me | +41 78 304 97 78 | zenodea.com

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 Honours*** — *September 2019 – May 2023*

- Dissertation: ML-Based COVID-19 Analysis on Government Policy Effectiveness
- Core modules: Computer Architecture, Data Science, Network Security

Work Experience

Founding Member of Technical Staff — London, UK / San Francisco, CA
Marengo (YC S26) — *September 2026 – present*

- Building the **AI-powered design tooling** engineers use to generate, explore, and validate data center designs
- Full-stack work across **LLM-driven** design-generation pipelines and engineer-facing review interfaces
- Shaped early codebase structure and engineering practices to support collaboration across the team

Advanced Software Engineer — London, United Kingdom
Worldover — *July 2026 – September 2026*

- Built secure, scalable infrastructure running **200+ AI agents** in isolated environments, 24/7
- Implemented and maintained the platform's authentication system using **AWS Cognito**
- Deployed and managed infrastructure on **AWS**, including EC2, S3, Lambda and Route 53

Software Engineer — London, United Kingdom
Worldover — *September 2025 – July 2026*

- Delivered full-stack features in direct collaboration with clients, driving customer acquisition
- Reduced backend processing times by **50%** by re-architecting core **TypeScript** services
- Built core features of an AI-first application, integrating agentic workflows into the product

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

Projects

Barnacle: Adaptive Multi-Leader Scheduling for DAG-based Consensus — September 2025 – present
Research collaboration with UCL, Mysten Labs & Digital Asset

- Led Barnacle, an adaptive scheduling mechanism for **DAG-based consensus** (arXiv:2609.03978)
- Designed adaptive leader selection using only the committed DAG, with no extra messages or cryptography
- Achieved **6–13%** lower latency than single-leader and **35–56%** over static multi-leader setups

Sharpedo: Dual-Mode Uncertified 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

Technical Skills

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

Certificates

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