Anker Rasmussen

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EDUCATION

City, University of London — Sep. 2023 – May 2026
1:1 Bachelor of Science (Honours) in Computer Science — *London, UK*

- **Relevant Modules:** Data Structures & Algorithms, Operating Systems, Computer Networks, Databases, Functional Programming, Theory of Computation, Computer Graphics, System Architecture

EXPERIENCE

Teaching Assistant — Oct 2025 – Present
City, University of London — *London, UK*

- Created worksheets for Y2 Electrical Engineering students covering digital design fundamentals incl. combinatoric logic, boolean algebra, K-maps, state machines.
- Taught tutorials, aided in teaching design labs in Logisim, and held support sessions for the cohort.

Software Dev Engineer Intern — June 2025 – Aug 2025
Amazon Prime Video — *London, UK*

- Engineered a serverless proxy layer within AWS CDK using AWS Lambda and API Gateway for a core monolithic service, successfully migrating over 1.6 million monthly requests to a new, modern endpoint secured by OAUTH
- Upgraded the project's Infrastructure as Code (IaC) from AWS CDK v1 to v2 and deployed an updated Admin WebUI, reducing engineering friction in the administration workflows of over 500 living room devices
- Implemented a security layer by integrating the service with Amazon's internal framework for user access OAUTH-based authentication

PROJECTS

Distributed Hashtable | *Networks, UDP, Concurrency, Git, Java* — March 2025 – April 2025

- Designed and implemented a decentralized, Kademlia-based Content-Routed Network (CRN) in Java for a university project, resulting in a robust peer-to-peer key-value store with efficient, decentralized routing
- Engineered a UDP-based communication protocol to ensure reliable messaging over an unreliable transport layer, which improved network resilience and performance through asynchronous message handling and automatic retries
- Implemented core Distributed Hash Table (DHT) operations, including read, write, exists, and Compare-And-Swap (CAS), within a Java-based peer-to-peer network, demonstrating a practical understanding of distributed data management and consistency

CognitiveConformity.com | *Linux, Nginx, OpenSSL, Git, Bash* — June 2024 – Present

- Engineered an automated deployment pipeline using a Bash script running as a service to pull from a Git repository, enabling a continuous delivery workflow
- Secured the self-hosted website by configuring Nginx to serve all content over HTTPS using SSL certificates from Let's Encrypt

Circuit Clash | *Java, Object-Oriented Programming (OOP)* — January 2024 – May 2024

- Developed a 2D platformer from the ground up, engineering all game objects, character classes, and core mechanics on top of a provided physics engine
- Applied object-oriented design principles to build a scalable and maintainable codebase for all game logic and assets

TECHNICAL SKILLS

Languages: TypeScript, Java, JavaScript, Python, C++, C#, SQL, HTML/CSS
Frameworks & Libraries: AWS CDK, React, Node.js, Flask, JUnit, pandas, NumPy
Developer Tools: Git, Linux (Ubuntu, CentOS), IntelliJ, VS Code, Visual Studio, Docker, Tmux
Cloud Platforms: Amazon Web Services (AWS)