

EXPERIENCE

- **Amazon** London, UK
Software Development Engineer II *Oct 2020 - Present*
 - **Token Authentication for Playback Domains:** Owned and delivered the Prime Video Android client-side Java and Kotlin development portion of a multi-organisation tiger team project to implement token-based authentication on Prime Video's playback domains. Also contributed to native libraries to implement CBOR deserialization and Common Access Token verification at the playback edge.
 - **Multi-tenant Client Configuration Versioning:** Led my team to deliver versioning for Prime Video internal client-driven configuration, leading to improved observability for client teams on the uptake of their changes to Prime Video customers and allowing more robust propagation solutions for configuration updates.
 - **Resiliency Features:** Designed and delivered a number of resiliency features as part of the Prime Video App Config team including Circuit Breakers between the service and upstreams, which increased the availability of the Prime Video startup-critical APIs as well as Adaptive rRtries between select services which improved the overall availability of the Prime Video backend.
 - **Service Migration:** Successfully migrated production authentication APIs away from a legacy service, using techniques such as double dispatch and coordinating with client teams to ensure no customer impact.
- *Software Development Engineer I* *Sept 2017 - Oct 2020*
 - **Prime Video Configuration Management:** Onboarded the Prime Video Living Room Client to Prime Video's Configuration Management service and created infrastructure and libraries for config validation, initially for the Living Room Client but which were later adopted by other clients of that service.
 - **Various UI features:** As a member of the Prime Video Living Room Client team, I developed the Prime Video Profiles feature, Search, Contextual Menu and a number of other features.
- *Other Roles* *Sept 2017 - Present*
 - **Technical Mentor & Amazon Advisor:** Mentored junior engineers to achieve specific goals such as improving design document writing and general "Ways of working" to find success in the corporate workplace.
 - **Scaling Point of Contact (SPOC):** Successfully scaled Prime Video's configuration management back end service for global live events such as Thursday Night Football and English Premier League, supporting over 20 million concurrent streams, in addition to organic video-on-demand growth.
 - **On Call Rotation:** Handled multiple regional and global outages as part of periodic on call shift. These included driving correspondence with various teams, external services such as AWS teams and CDN providers like Fastly.

SKILLS

- **Proficient:** Typescript, Node.js, Java, React, Kotlin, Android, Git, Bash, AWS - EC2, ELB, Lambda, DynamoDB, Cloudfront
- **Comfortable:** Clojure, Python, Ruby

EDUCATION

- **Imperial College London** London, UK
MEng Computing; 2.1 (69%) *Sept. 2013 - June. 2017*
- **Concord College** Shrewsbury, UK
A Levels; A - A in Mathematics, Further Mathematics, Physics, Chemistry* *Sept. 2011 - June. 2013*

PROJECTS

- **Clickbait Ninja (Dec, 2025 - present):** A Chrome extension that provides instant content summaries when hovering over links, helping users avoid clickbait and make informed decisions about which links to follow.