Oscar Cwajbaum

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Facebook (Meta)   05/2017 - Present

Production Engineer - Manager and Technical Lead

- Founded and built Facebook's public cloud team, onboarding the initial 8 engineers and 3 managers in multiple cities. Led the design and implementation of Facebook's standard developer tooling for AWS, including integrations of authentication/authorization (AWS STS/IAM), logging/metrics (CloudWatch), AWS account management, and infra-as-code (Terraform) into the Facebook environment. Guided multiple production service migrations from on-prem to AWS.

- Led program to migrate vendor workers worldwide to Facebook-managed, highly-secure AWS-based virtual desktops accessed from thin client endpoints. Scaled the program from pilot to tens of thousands of workers across 9 AWS regions, 10+ business units, 40 business workflows, and 60 vendor offices.
    - Presented it at AWS Re:Invent: https://youtu.be/wYOHMQoYWIA?t=439

- Founded, built and led Facebook's virtual desktop platform team, onboarding the initial 9 engineers and a manager during COVID work-from-home lockdown. Initiated and led multiple strategic projects, such as a re-architecture that reduced per-user costs by 71% and a migration from legacy on-prem Citrix to a Teradici CAS solution running in AWS.

- Led a key pillar of Facebook's Remote Work @Scale initiative, enabling flexible AWS-based virtual desktops that fully replicate a corporate-issued physical laptop. This required redesigning foundational device provisioning and security systems that made assumptions about physical location, network connectivity, and hardware that are obsoleted by virtual desktops.

- Managed the AWS, Teradici, and Sophos vendor relationships, including negotiating licensing terms, influencing product roadmaps, and overseeing technical issue resolution. Also managed engineering contract vendors such as SixNines IT.

Amazon   06/2011 - 03/2017

Software Development Manager (Lab126 Computer Vision Machine Learning)

- Led geographically-distributed org responsible for collecting, managing, and annotating millions of records for datasets used to train Computer Vision (CV) Machine Learning

(ML) models, growing the internationally-distributed team from 5 to 20 and overseeing external data collection vendors.

- Developed cross-project tools and platform for ingesting, managing, and tagging Big Data sets consisting of millions of images and thousands of hours of video, using AWS Lambda, EC2, S3, RDS, and SQS. Reduced development and operational costs by eliminating the need for one-off data management solutions and simplifying cross-project data reuse.

- Increased data collection and annotation rate by 100x in 6 months by improving operational efficiency and tooling.

Software Development Manager (Amazon Web Services EC2)

- Led team of 6 engineers responsible for all Amazon Machine Image (AMI) APIs and management services, including ImageManager and AMI Copy.

- Led the design and development of AWS's next-generation AMI feature set, including the initial design for EC2 Launch Templates.

Education

Bachelor of Science in Computer Science from the University of Illinois Champaign-Urbana