Calum Crawford

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EDUCATION

University of San Francisco San Francisco, CA
B.S. Computer Science, Chinese Studies Minor August 2021 - May 2025

WORK EXPERIENCE

Handshake San Francisco, CA
Cloud Engineer Intern - Infrastructure Team June 2025 - Present

- Automating service creation using Go, Terraform, Kubernetes, and ArgoCD

TrampolineAI San Francisco, CA
Software Engineer Intern May 2024 - June 2025

- Created log metric filters and alarms using AWS CloudWatch and AWS SNS to enable email notifications to alert organization administrators when errors occurred
- Migrated services from Google Cloud to Amazon Elastic Container Service (ECS) using Github Actions, Terraform, Docker, and Amazon ALB (Application Load Balancer).
- Led the migration from DynamoDB to ElasticSearch, utilizing indexing and pagination to reduce homepage load times from 10+ seconds to under 2 seconds.

humanID (non-profit) San Francisco, CA
Lead Software Engineer Intern January 2024 - May 2024

- Resolve a critical bug in the humanID Discord bot by adjusting AWS security groups, ensuring secure inbound communication between the bot's EC2 instance and the MySQL-based RDS.

Bushido San Francisco, CA
Software Engineer Intern May 2023 - January 2024

- Utilized React.js, TypeScript, and PostgreSQL to build a native ticketing solution, enabling the creation of 43 events by 14 distinct artists.

PROJECTS

AWS EKS Deployments using Blue/Green April 2025 - May 2025

- Built and deployed a multi-environment AWS infrastructure using Terraform, EKS, and Github Actions, integrating RDS, ECR, Redis, and Cert Manager across three namespaces with Kubernetes ingress.
- Implemented blue/green deployments with Argo Rollouts, automating nightly builds and environment promotions via Github Actions (CI/CD).

Blueprint May 2025

- Winner of the DonsHack '25 "Most Innovative Award" and recipient of a $500 micro-grant.
- Using Next.js, PostgreSQL, and Python, to build a data visualization tool that enables USF students to visualize their course requirements and map out complex co/prerequisite course requirements.

SKILLS

Programming Languages: Go, Java, JavaScript, Python, TypeScript.
Cloud Services: AWS (DynamoDB, Lambda, S3, EKS, ECS, CloudWatch), GCP (GKE, Cloud Run).
Additional Technologies: ArgoCD, BuildKite, Docker, Kubernetes, ElasticSearch, Github Actions.