

# Oorjit Chowdhary

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## EDUCATION

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### University of Washington, Seattle

Aug 2022 – June 2026

Bachelor of Science in Electrical & Computer Engineering and Economics

GPA: 3.52 (6x Dean's List) | Minors: Data Science, Applied Mathematics

Coursework: Algorithms, Database Systems, Linear Algebra, Regression, ARM Architecture, Computer Networks, Financial Derivatives

## EXPERIENCE

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### xAI / X — Software Engineer Intern, Foundational Services

June 2025 – Sept 2025 | Palo Alto, CA

- **Deconstructed Vine for Grok pretraining**, reconciling PB scale blobstore buckets, service clusters, and 5+ years old codebases.
- Proposed baremetals capacity demand and forecasting framework for [Colossus](#) supercluster, exposing **per-project GPU usage**.
- Orchestrated **high-frequency power telemetry for 8K+ production hosts**, visualizing minutely logs on Grafana for monitoring.

### University of Washington (UW) — AI Architect Intern

Nov 2024 – June 2025 | Seattle, WA

- Execute versatile efforts to enhance AI infrastructure, integrate AI tools, promote responsible AI practices for **~60K stakeholders**.
- Implemented RAG-based chatbots for UW-specific use cases with **Elasticsearch and OpenAI model tool calling** on Azure.

### X (fka Twitter) — Software Engineer Intern, Foundational Services

June 2024 – Sept 2024 | San Francisco, CA

- Overhauled datacenter energy consumption observability pipeline to use **Kafka and Hadoop** for **30% more predictive metrics**.
- Offloaded mTLS encryption to Nginx sidecar on Kubernetes, enhancing **scalability for #Paris2024 Olympics real-time feed**.
- **Streamlined feature releases for X Money** by building multi-stage CI/CD to deploy A/B tested containers after EM approvals.
- Revamped **Terraform module for IAM auth** on AWS EKS, adding K8s namespace granularity for **higher FTC compliance**.

### UW eScience Institute — Research Engineer Intern

Feb 2024 – June 2025 | Seattle, WA

- Explored fault tolerance and fast recovery in the context of **AI/ML distributed training** systems for UW research needs.
- Investigated software **orchestration for research workloads** to run on interruptible spot VMs for **~80% cloud cost reduction**.
- Prototyped model **checkpointing via GCS buckets** in PyTorch training loops (CIFAR, ResNet50) for seamless resumption.
- Spearheaded authoring consolidated technical resources for **cross-cloud interoperability efficiency** using SkyPilot AI framework.

### UW DubHacks — Technical Lead

Feb 2023 – Present | Seattle, WA

- Building **hacker identification** and prize redemption systems, streamlining operations for **1K+ hackers and \$20K+ prizes**.
- Developing **fair and efficient project judging algorithm** and automating sponsorship outreach to reach 1,000+ companies.

### Google Open Source — Software Developer

Oct 2018 – Jan 2019 | Remote

- Invited to Google HQ as **youngest winner (14 y.o., 3K+ participants)** for technical contributions to environmental nonprofit.
- **Migrated Ruby-on-Rails production app** to OAuth 2.0 and **redesigned site-wide login UX** with Google Material elements.

## TECHNICAL SKILLS

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**Languages:** Golang, Python, Java, SQL, Bash, JavaScript/TypeScript, C, Scala

**Tools:** Git, Terraform, Puppet, Docker, Kubernetes, Kafka, Redis, Grafana, Hadoop, PostgreSQL, PyTorch

**Services:** AWS (EKS, ECS, Fargate, RDS, SQS, VPC, Route53), MongoDB, Firebase, Heroku

**Frameworks:** FastAPI, Node.js, React, Next.js, Svelte, Flutter, React Native, Android

## PROJECTS & ACHIEVEMENTS

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### [Know Your Traveler](#) — National Finalist at Microsoft Imagine Cup India

- **Conceptualized privacy-first digital health ID** for post COVID travel and developed secure middleware REST API.
- Implemented RT-PCR tests validation using **Azure Cognitive Services & Health Analytics** on a Node.js & Flutter product.
- Formulated GTM strategy and **pitched to 200+ frequent flyers**, receiving a **~90% endorsement** rate.

### [Klear](#) — Ideate for India Appreciation by Govt of India Ministry of Electronics & IT

- Proposed mobile startup enabling in-house waste management via **custom TensorFlow CNN on-device vision model**.
- Incentivized citizens by offering retail credits and personalized DIYs, **leading to a ~15% waste reduction** overall.

### [VS Code DMs](#) — Top 15 Products of the Day on Product Hunt (800+ installs)

- Launched **real-time socket.io direct messages & group chats** VS Code plugin, augmenting code collaboration.
- Enabled efficient image sharing with paste-to-share uploading and image URI rendering using **Firebase Storage**.