

# Oorjit Chowdhary

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## EDUCATION

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### University of Washington, Seattle

Aug 2022 – June 2026 (expected)

Bachelor of Science in Electrical & Computer Engineering and Economics

GPA: 3.55 (4x Dean's List) | Minors: Data Science, Applied Mathematics

Coursework: Algorithms, Database Systems, Digital Circuits & Systems, Econometric Applications, Antitrust in Tech

## EXPERIENCE

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### Software Engineer Intern (Infrastructure), X (fka Twitter)

June 2024 – Sept 2024 | San Francisco, CA

- Overhauled X/xAI datacenters power observability from lossy Scribe logs to **Kafka clusters, prevent ~30% data loss**.
- Built **Argo GitOps pipeline to auto provision K8s clusters on-prem**, saving engineering hours and reducing delays.
- Migrated mTLS to Nginx K8s sidecar for Bun.js production app** to enhance scalability for #Paris2024 Olympics.
- Created **Terraform module redesigning EKS RBAC** for IAM entities, adding K8s ns granularity to boost compliance.

### Cloud Computing Intern, UW eScience Institute

Feb 2024 – June 2024 | Seattle, WA

- Investigated **fault-tolerant architecture for research workloads** to run on preemptible VMs, cut cloud bills by ~80%.
- Implemented **checkpointing via GCS buckets in PyTorch training scripts** (CIFAR, ResNet50) for model recovery.
- Spearheaded authoring consolidated technical resources for optimal cloud usage using **SkyPilot AI infra framework**.

### Technical Systems Lead, UW DubHacks

Feb 2023 – Oct 2023 | Seattle, WA

- Built **QR-led hacker identification** and prize redemption system, streamlining ops for **1K+ hackers & \$20K+ prizes**.
- Developed **randomized ID project judging algorithm** and automated sponsorship efforts to reach 500+ companies.

### Software Development Fellow, Major League Hacking

Jul 2021 – Aug 2021 | New York, NY

- Created VS Code extension with **NLP, RabbitMQ, TypeScript** to triage issues, set todo reminders, and schedule syncs.
- Demonstrated **serverless architecture design using Vercel Functions**, eliminating \$500 in service deployment costs.

### Software Developer, Google Open Source

Oct 2018 – Jan 2019 | Remote

- Invited to Google HQ as **youngest winner (3K participants)** for technical contributions to environmental nonprofit.
- Migrated Rails architecture to OAuth 2.0 and redesigned site-wide login UX** with Google Material elements.
- Scrutinized 36 bugs on CMS workflows** with usability testing and **devised click-sensitive tutorials** for new traffic.

## TECHNICAL SKILLS

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**Languages:** Golang, Python, Java, SQL, Bash, JavaScript/TypeScript, C, Dart, XML/CSS, YAML

**Tools:** Git, Terraform, Docker, Kubernetes, Kafka, Redis, Thrift, PostgreSQL, PyTorch

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

**Frameworks:** Flask, Django, 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. Developed secure middleware REST API.
- Implemented **RT-PCR tests validation using Azure Cognitive Services & Health Analytics** on Node.js & Flutter.
- Formulated **GTM strategy** and **pitched to 200+ frequent flyers**, receiving a **~90% endorsement rate**.

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

- Proposed mobile startup **enabling in-house waste management via TensorFlow ML** convoluted neural networks.
- 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, Product Hunt (800+ installs)

- Launched **realtime 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**.