

Oorjit Chowdhary

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EDUCATION

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, Scientific Computing, Econometrics, Antitrust Law

EXPERIENCE

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

June 2024 – Sept 2024 | San Francisco, CA

- Overhauled xAI datacenter's lossy power monitoring to use **Kafka & Hadoop clusters, retaining 30% new metrics**.
- Designed **Argo CD pipeline to auto-provision Kubernetes clusters** on-prem, eliminating all manual errors & delays.
- Migrated TLS encryption to Nginx sidecar server** for #Paris2024 Olympics production app to enhance scalability.
- Developed **Terraform module revamping IAM auth on AWS EKS** to add K8s ns granularity for higher 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

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

Tools: Git, Terraform, Docker, Kubernetes, Kafka, Redis, Thrift, Hadoop, 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

[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**.