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, Data Structures, Database Systems, Digital Circuits, Scientific Computing, Econometrics, Antitrust Law

EXPERIENCE

University of Washington — *AI Architect Intern*   Nov 2024 – Present | Seattle, WA
- **Execute UW's $1B proposal to lead university-wide AI enablement**, upgrading data infrastructure to power AI-first products.

X (fka Twitter) — *Software Engineer Intern, Infrastructure*   June 2024 – Sept 2024 | San Francisco, CA
- Overhauled power observability for xAI datacenter to use **Kafka & Hadoop HDFS**, driving **30% increase in predictive metrics**.
- Offloaded **mTLS encryption to Nginx sidecar on Kubernetes**, enhancing scalability for #Paris2024 Olympics real-time feed.
- **Streamlined feature releases** for X Payments by **building 4-stage AWS CI/CD** to auto-deploy prod containers after approvals.
- Developed **Terraform module revamping IAM auth on AWS EKS** to add K8s **namespace granularity** for higher compliance.

UW eScience Institute — *Cloud Computing Intern*   Feb 2024 – June 2024 | Seattle, WA
- Investigated **fault-tolerant architecture** for research workloads to run on preemptible VMs for **~80% cloud cost reduction**.
- Implemented model **checkpointing via GCS buckets in PyTorch training loops** (CIFAR, ResNet50) for seamless resumption.
- Spearheaded authoring consolidated technical resources for maximizing performance/cost for cloud with **SkyPilot AI framework**.

UW DubHacks — *Technical Systems Lead*   Feb 2023 – Present | Seattle, WA
- Built **QR-led hacker identification** and prize redemption system, streamlining operations for **1K+ hackers and $20K+ prizes**.
- Developed **randomized ID project judging algorithm** and automated sponsorship outreach to reach 500+ companies.

Major League Hacking — *Software Development Fellow*   Jul 2021 – Aug 2021 | New York, NY
- Leveraged **NLP for RabbitMQ-streamed VS Code extension** to minimize Jira loops, set task reminders, and schedule meetings.
- Demonstrated **serverless architecture** using Vercel Functions, **eliminating $500 in deployments** at **zero service downgrade**.

Google Open Source — *Software Developer*   Oct 2018 – Jan 2019 | Remote
- Invited to Google HQ as **youngest winner (from 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.
- **Scrutinized 36 bugs on Drupal CMS workflows** with usability testing and **devised click-sensitive tutorials** for new traffic.

TECHNICAL SKILLS

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