Adeetya Upadhyay

+1 (765) 977-2984 | adeetya.upadhyay@gmail.com | linkedin.com/in/adeetya-upadhyay | adeetya-u.github.io

EDUCATION

University of Illinois Urbana-Champaign — **May 2027**
Bachelor of Science in Computer Science and Advertising — GPA: **3.80/4.00**
Bachelor of Science in Econometrics and Quantitative Economics

Relevant Coursework: Data Structures & Algorithms, Automata Theory, Compilers, Databases, Distributed Systems, OS

Dhirubhai Ambani International School *IB: 40/45 | IGCSE: 11 A* | SAT: 1600* — May 2023

PROFESSIONAL EXPERIENCE

Mondelez International — Sep 2025 – Present
R&D - Software Engineering Intern — *Champaign, IL*
- Building HDBSCAN model screening 4M+ sugars using 23 physicochemical features to identify low calorie options
- Automating 160+ GROMACS molecular dynamics solubility simulations with Python and SLURM scripts for HPC
- Developing a Fourier-based commodity price forecasting model in PowerBI, estimating $167M+ in long-term savings

AG Maritime — May 2025 – Aug 2025
Software Engineering Intern — *Mumbai, MH*
- Designed ATS scorer with React/Node.js/PostgreSQL, automating parsing and staff matching for 5K+ apps/month
- Integrated a Google SEO parser that updated role requirements using hiring rules and real search-query signals
- Reduced vetting duration by 88% for 1K+ crew/month via a Hungarian-matching model on rank and availability

Reliance Jio — Jul 2024 – Aug 2024
Software Engineering Intern — *Mumbai, MH*
- Built a TensorFlow LSTM to forecast failures from station battery chains, boosting maintenance accuracy by 10%
- Implemented a Docker CI/CD pipeline with GitHub Actions and Feast, ensuring reliable weekly model retraining
- Added monitoring scripts that flagged missing telemetry and cut pipeline outages by 8% across 30,000+ stations

Accenture — Nov 2023 – Jul 2024
Software Engineering Intern — *West Lafayette, IN*
- Created a Signavio-Python process-mining ETL with 16 engineers, identifying 1.5K+ blockers by impact and effort
- Led 8 SWEs on a Random-Forest scoring system for $1B+ processes, ranking blockers by severity and completion rate
- Deployed a RAG model generating cited, score-based blocker summaries, cutting report time from 3 days to 25 mins

PROJECTS

MicroBreaks | *Swift, AppKit, Core Graphics* | GitHub | Demo — Oct 2025 - Nov 2025
- Built macOS menu bar app to reduce carpal tunnel risk with break notifs every 500-5000 keystrokes or 10-30 minutes
- Implemented privacy-first keystroke counting and background timer tracking using CGEventTaps and RunLoop

TutorSwap | *React, Flask, PostgreSQL, Python* | GitHub — Jan 2025 - August 2025
- Engineered peer-based tutoring platform with KNN matching algorithm scoring course overlap, ratings, and majors
- Integrated real-time messaging with Flask-SocketIO and LLM conversation starters on Dockerized microservices

LEADERSHIP

OTCR Consulting — Aug 2024 – Present
Technical Project Manager — *Champaign, IL*
- Led 9 SWEs on a GCP logo-detector (YOLO/Cloud Vision) with occlusion/region/OCR support and 90%+ recall
- Tracked GPU performance across 10+ vendors to determine performance decay metrics for a benchmarking startup
- Assessed $20M/yr IoT opportunity for F500 marine firm via 20+ interviews and 80+ product reviews for 27 brands

Product Space Fellowship — Aug 2024 – Present
Technical Product Manager — *Champaign, IL*
- Defining product roadmap and GTM strategy for embedded firmware AI agent through user research for YC startup
- Won #1 at PS Hackathon with Buy/Bye, a CV-LLM that questions impulse buys from a product image (Demo)
- Secured $50K+ in funding for non-profits by developing AI resource hub, Jinship, collating grant resources (Demo)

SKILLS

Languages: Python, SQL, JavaScript, TypeScript, C++, Java, R
Frameworks & Tools: React, Node.js, Flask, Docker, Git, PostgreSQL, MongoDB, Neo4j, Signavio
Cloud: AWS (EC2, S3, RDS, Lambda), Azure (Functions, Data Factory), GCP (BigQuery, Pub/Sub, Cloud Vision)
Distinctions: Dean's List, #2 in Citadel Invitational ($450K return), IBM Data Scientist, Amazon Ads, UPenn M&TSI '22