

Aishwarya Dev

Los Angeles, California | +1(424)-946-5034 | aishd30.ad@gmail.com | [linkedin](#) | [personal site](#)

EDUCATION

- MS, Computer Science**, University of California Los Angeles (UCLA), **GPA: 3.6/4** **Sep 2021 — Sep 2023**
- BE, Electronics and Communication Engineering**, Medi-Caps University, **GPA: 8.3/10** **Aug 2013 — May 2017**

TECHNICAL SKILLS

- **Programming Languages:** Python, Javascript, Typescript, C#, C++, Shell scripting
- **Machine Learning and Generative AI:** Transformers, GPT, Gemini, LangChain, UNET, CNN, RNN, GAN, VAE, Diffusion, PyTorch, Tensorflow, XGBoost, Pandas, NumPy, Matplotlib, HuggingFace, Scikit-learn
- **Frontend and Backend Frameworks:** React, Angular, Figma, HTML5, CSS3, SCSS, NodeJs, Express, ASP.NET Core, EF Core
- **Data Management:** SQL Server, MySQL, PostgreSQL, MongoDB, Redis, Neo4j, Apache Spark
- **Cloud DevOps:** CI/CD, Docker, Kubernetes, Azure, AWS, Git and Linux
- **Graduate courses:** Neural Networks and Deep Learning, NLP, NLG, Computer Vision, Cognitive Artificial Intelligence, Computational Genomics, ML in Neuroscience, Cryptography and Blockchain
- **Blockchain and Web 3.0:** DeFi, DEX, Ethereum 2.0, Algorand, Solidity, PyTeal

WORK EXPERIENCE

- **Machine Learning Researcher, UCLA Brain Research and Artificial Intelligence Nexus** **Sep 2023 — Present**
 - Developing solutions for **deep learning based morphological segmentation and brain dynamics analysis** of dense biological neural networks while ensuring **high recall, minimal pre-processing and high scalability** across large brain images using SOTA computer vision, graph theory, and generative algorithms.
- **Software Engineer Intern, Illumina Inc.** **June 2022 — Sept 2022**
 - Developed a **graphics benchmarking and profiling tool** for Illumina's DNA sequencers and instrument software and collaborated on genomic data analysis using deep learning.
- **Full Stack Developer - TCS and Microsoft Cloud, Tata Consultancy Services** **Aug 2019 — Sep 2021**

Developed a microservices based governance framework for TCS and Microsoft Cloud. Contributed actively across the entire tech stack including **software architecture, front-end, back-end and APIs, database design, DevOps and CI/CD development**. Responsible for mentoring new team members, performing code reviews, and presenting to stakeholders.

 - Orchestrated framework upgrade, code quality control and standardization and other proactive optimization measures for **35% minimized bug incidence, 70% reduced code smells and 30% overall performance improvement**.
 - Performed proactive query optimization, DB caching, and Denormalization on the database side to improve the site's **end to end response time by 50%**.
 - **Expedited software delivery of bug-free and compliant code by 1 week and improved deployment frequency** through efficient code reviews and CI/CD optimization.
- **Systems Engineer, Tata Consultancy Services** **Jan 2018 — Jul 2019**

Oversaw the **backend infrastructure and application management** for a prominent European bank.

 - Diagnosed and fixed issues on load balancing servers resulting in **30% latency reduction and Network throughput optimization**.
 - Introduced automation scripts for **25% time saving on patch management** and manual post-deployment verification.
 - Wrote general purpose scripts for **50% quicker resolution of general ledger issues**.
 - Drove workload distribution across teams by training and assisting new team members.

LEADERSHIP / VOLUNTEER EXPERIENCE / AFFILIATIONS

- Panelist and speaker at Google's Leaders in AI panel at [DevFest LA 2023](#).
- Panelist and speaker at Google LA's Kode with Klossy Summer 2023 coding camp.
- Moderator at [Google for Startups Women Founders](#), [Masterminds AI 2023](#) and mentor at GDSC Concordia.
- Hackathon judge at [Sachacks 2022](#), and [Sachacks 2023](#).
- Google Women Techmakers Ambassador and GDG North America member.
- UCLA Data Management Systems, and Software Construction Teaching Assistant.
- UX developer volunteer at Monday.com for [SD2](#) non-profit.

SOLO PROJECTS

My solo projects include - Multimodal Natural Language Generation, Time Series Analysis, Applied ML in Genomics and Neuroscience, and Blockchain and DeFi and are available on my [github](#)/upon request.