Chaitanya Chaurasia

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EDUCATION

Arizona State University   May 2025
B.Sc. Computer Science (Dean's List)   *Tempe, Arizona*

WORK EXPERIENCE

B:Side Capital | *Full-Stack Software Engineering Intern*   Denver, CO | Sept 2024 - Dec 2024
- Shipped an AI-powered CRM using **Next.js, Flask** & **Plaid** for financial insights into **$100+ million**, increasing lender-client interactions by **33%**.
- Employed **Ansible** for automated **CI/CD** & resource provisioning, enabling seamless version roll-outs.
- Adding **AES, OAuth2** and scaled APIs to handle **100,000 req/sec** using **AWS Auto-Scale** & **Firebase**.
- Utilized **Llama 3.3** & **Delphi** to deploy custom **RAG-based** chat agents for sequential reasoning.

IDEXX | *Embedded Systems Engineering Intern*   Portland, ME | June - Aug 2024
- Deployed a **REST API** for Linux-based veterinary instruments to execute **5 key** operations including remote control via **WLAN/VPN**, diagnostic assay runs and chemical analysis.
- Migrated codebase to **ASP.NET Core MVC** & **Lua** for lightweight scripting with **C**-based microservices.
- Implemented a multithreaded **SQL-based Priority Queuing** algorithm for concurrent HTTP & TCP/IP protocols.

Arizona State University | *Undergraduate Teaching Assistant*   Tempe, AZ | Jan - May 2024
- Mentored 150+ students in CSE 360, covering **Data Structures**, **Algorithms**, **Agile** development, and software design.

Indian Institute of Technology | *Machine Learning Engineering Intern*   Delhi, India | May - July 2023
- Capitalized on **open-source** tools- **PyPSA, Altite** to optimize power systems networks in the UK by **25%**, based on **10+** socio-economic factors and **predictive data analytics**.
- Achieved **37%** efficiency gains by linearly optimizing dispatch & annual costs with **GLPK, Spark**, and **Prim's algorithm**.
- Built **Random Forest Classifiers** for severity classification of parameters like capacity, emissions, and coupling.

SKILLS

Languages: C++, C#, Java, Python, JavaScript (ES5/6), TypeScript, HTML, SQL, Swift, MIPS
Frameworks: ASP.NET, CSS, Express, Node, Next.js, React, Spark
Libraries: Flask, NetworkX, OpenCV, PyTorch, Scikit-Learn, Tailwind
Tools: AWS, Ansible, Docker, Figma, Git, Jenkins, JUnit, Linux, Maven, Prisma, Vertex AI
Coursework: Distributed Systems, Machine Learning, Network Security, 3D Visualizations, Computer Architecture

PROJECTS

StockSage | *Next.js, Python, Social Media Mining*
- Built a stock prediction platform using **Next.js** with sentiment analysis (Reddit, X) and market data, achieving mid **70%** accuracy.
- Integrated a back-tested investment framework with **XGBoost**, user-defined thresholds, and real-time Alpha Vantage data to optimize trading strategies.

Legal AId | *MLH Google Cloud Track Winner, HackHarvard* | *React, Python, GCP*
- Developed an AI-powered webapp for rapid & precise legal guidance, leveraging **Google Cloud** and custom-trained **PaLM** models.
- Implemented secure, scalable infrastructure using **Kubernetes** and **Firestore** for vector searches, document management, and **server-less access** with **IP whitelisting**.
- Built **recommendation engines** integrating **Google Maps API** and Google's **classification models** to connect users with attorneys based on query relevance and location.