

Hrishabh Ayush

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EDUCATION

Cornell University

B.A. in Computer Science & Mathematics, TATA Scholar

Ithaca, NY

Expected - Dec 2026

EXPERIENCE

Software & Smart Contract Engineer at Aladdin AI

Apr 2025 – Present

Machine Learning Intern

Manhattan, NY

- Deployed and customized over 10 open-source AI agents using dockerization with benchmarking categories
- Developed a scalable CI/CD pipeline using GitHub Actions and AWS (EC2, S3), Render, CloudFlare, and Railway to automate testing, Docker container deployment and infrastructure update for agent workflows

Software Engineer at Seismic Systems

Jan 2025 – Apr 2025

Smart Contract and FullStack Development Intern

Manhattan, NY

- Developed an Automated Market Maker in Solidity that transforms each swap into an AI generated violin track
- Created a React Native mobile app for real-time market-driven audio feedback, enhancing user engagement and reducing playback latency by 30% for seamless trading interactions

Head of Engineering at Cornell Blockchain Club

Jan 2024 – Present

Cornell University

Ithaca, NY

- Designed a secure, decentralized verification layer model using blockchain technology to facilitate bespoke verification for gig-based tasks, improving transparency and trust in video collaboration processes
- Developed an AI-powered matching system using large language models (LLMs) to compare video image renders with transcribed text, ensuring content accuracy of upto 90% and enhancing video editing workflows
- Mentored 5 groups of 3-4 students with technical insights, demo strategy, and problem-solving code and concepts

PROJECTS

Context aware screen overlay agent using RL | *Typescript, ActivityWatch, Docker, Railway* Feb 2024 - Present

- Created a real-time, modular voice agent integrated into a screen overlay, capable of analyzing and responding to user activity through reinforcement learning models with 300 ms sub-latency
- Engineered adaptive behavior in the agent using feedback loops based on user interactions and the Doodles API, increasing task relevance and character engagement by over 60% during an average session
- Awarded \$20,000 for delivering the Best Immersive Experience at Dreamnet Character agent hackathon

Event Driven Insurance Prediction Markets | *Typescript, Solidity, Python, Node.js*

Feb 2024 - Present

- Awarded \$5000 for building the Best Product in Encrypted DeFi at Penn Blockchain Hackathon.
- Built a parametric-insurance marketplace across verticals that auto-pays claims, shrinking settlement time by 95%.
- Engineering an uncorrelated yield stream for hedge funds via a pooled-underwriting vault and stochastic modeling to generate 5% APY returns on each predictions.

Insurance claims denial predictor for healthcare providers | *Python, ClinicalBERT, OpenAI*

June 2025

- Developed ClaimAssist, trained on 5000 synthetic data, predicted claim adjudication from physician's note & EHR
- Created dynamic-weight learner algorithm with Random Forest, ClinicalBERT, and OpenAI, adopting a fallback mechanism that achieves 90% prediction accuracy on synthetic and real dataset.
- Won the First Prize with the best solution in legacy healthcare among 50+ people.

Web3 SaaS for Social Media Optimization | *TypeScript, Web3.js, Solana, AWS, Git*

May 2024 – Feb 2025

- Implemented frontend components with REST APIs and developed payment processing using Solana, potentially reducing transaction processing time by 5 seconds and enhancing platform responsiveness for user interactions
- Integrated a secure file upload system using AWS S3 presigned URLs and CloudFront, which improved content delivery speed by 40% and reduced backend infrastructure exposure, ensuring data security and optimizing UX

TECHNICAL SKILLS AND AWARDS

Languages: Python, Java, Solidity, C/C++, OCaml, Rust

Libraries: Numpy, Matplotlib, Pandas, Git, TensorFlow, PyTorch, Scikit-Learn

Fullstack: Next.js, Tailwind, JavaScript, TypeScript, Node.js, React.js, AWS, Prisma, Express.js, Docker, PostgreSQL

Awards: USAMO Qualification, AMC 12 Distinguished Honor Roll – Top 1% in the world, 2 times AIME Qualified, NTSE Scholar, KVPY Fellowship, Online Physics Olympiad High Honors, National Math Olympiad