

Adyasha Mishra

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EDUCATION

- **MEng in Cloud Engineering, University of Maryland College Park** August 2025 – May 2027
- **BE in Computer Engineering, University of Mumbai** August 2018 – May 2022

PROGRAMMING SKILLS

- **Languages:** Python, JavaScript, TypeScript, Java, SQL, HTML, CSS, Bash
- **Frontend:** React, Redux, React Router, Rendering Strategies (CSR, SSR, SSG, Islands Architecture, Micro Frontends), Angular, HTML5, CSS3, Cross-Browser Compatibility.
- **Backend:** Node.js, FastAPI, Express, RESTful APIs, GraphQL, OAuth, OIDC
- **Databases:** MongoDB, MySQL, DynamoDB, PostgreSQL
- **Infrastructure & DevOps:** Linux, Docker, Kubernetes, Jenkins, Terraform, AWS (ECS, EC2, S3, CloudWatch, IAM, CodePipeline), CI/CD Pipelines, Observability Tools
- **Tools & Other:** Git, Postman, JIRA, Confluence, Firebase, Microservices, Agile/Scrum, Unit Testing, Patch Management, Application Monitoring

WORK EXPERIENCE

Niramai Health Analytix - Early Breast Cancer Detection

- **Software Engineer -II** January 2025 – July 2025
 - Built and deployed full-body cancer detection system with production-grade cloud architecture; submitted for FDA clearance.
 - Improved microservice latency by optimizing GraphQL/API interactions and caching layer, enhancing user responsiveness.
 - Designed SQL/NoSQL data models to improve system performance and reduce query time by 30%.
 - Developed CI/CD pipelines using Jenkins and Docker, cutting deployment time by 50% and accelerating release cycles.
 - Optimized AWS deployments reducing cloud costs by 20% and enhancing scalability for ML-driven healthcare applications.
 - Collaborated with cross-functional teams to ensure diagnostic accuracy, regulatory compliance, and clinical readiness.
 - Integrated observability metrics and proactive incident response workflows for platform resilience.
- **Software Engineer -I** July 2022 – December 2024
 - Developed and scaled 10+ backend services using Node.js and FastAPI, improving reliability by 35%, access speed by 25%, and ensuring 99.9% uptime.
 - Integrated third-party APIs like WhatsApp Cloud API, streamlining communication and automating critical workflows.
 - Collaborated with team members during sprint planning and client sync-ups using JIRA, helping achieve 95% sprint goal completion and reducing blockers by 40%.
 - Enhanced application performance through containerized deployments (Docker) and scalable cloud infrastructure.
 - Built and optimized 10+ front-end components using ReactJS and Angular, boosting UX and reducing load time by 25%.
- **Software Engineering Intern** May 2021 – June 2022
 - Co-developed ML-based diagnostic interface with higher engagement (+15%).
 - Implemented secure authentication with Passport + JWT, cutting access violations by 40%.
 - Delivered 50+ UI/UX features to enhance usability.

PROJECTS

- **AI ESG Tracker – Sustainability-focused full-stack app with real-time AI-driven suggestions | Angular, Node.js, MongoDB, Chart.js**
 - Developed a full-stack sustainability tracker with real-time visualization and carbon goal insights.
 - Integrated cloud APIs for dynamic emissions calculations and goal suggestions.
- **MedPrompt AI Assistant | Generative AI | RAG | OCR | Multilingual NLP | Gradio UI | Gemini 1.5 Flash | FAISS**
 - Built a multilingual AI healthcare assistant that extracts and explains prescriptions using OCR and Gemini-powered RAG.
 - Enabled drug interaction detection across languages with FAISS similarity search and user-friendly Gradio UI.
- **Network Intrusion Detection System (NIDS) Academic Project | Python, Scikit-learn, SVM, Random Forest**
 - Created a hybrid ML-based IDS reducing false positives by 30% and integrating with a Go-based backend.
 - Published IEEE-format research and demonstrated systems-level architecture performance and reliability.

ACHIEVEMENTS

- Received On-the-Spot Excellence Award (Jan 2024 & Full-Year 2023–2024) for impactful contributions at Niramai.
- Mentored 3+ junior developers, cutting onboarding time by 40% and boosting team velocity by 25%.
- Spearheaded infrastructure automation for monitoring, patching, and compliance readiness.