

Asish Kumar Yeleti

Aspiring Software Developer

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Education

RV College of Engineering, B.E. in Information Science and Engineering, CGPA: 9.05	2023–Present
Delhi Public School East, 12th Grade, 96.2%	2021–2023
Ryan International School, 10th Grade, 96.4%	2009–2021

Experience

Frontend Developer Intern <i>Vortex Media Management</i>	Apr 2025 – May 2025 <i>Remote</i>
<ul style="list-style-type: none">Assisted in creating front-end dashboards with Next.js, a React-based framework, according to particular project specificationsDelivered user interface functionality in clean, effective, and supportable code with adherence to standard industry practicesMaintained information confidentiality and adhered to specified security measures for backend environments and sensitive dataFinished all task work within negotiated timelines with effective communication on progress, delay, or technical constraints	
Product Developer Intern <i>einsteini.ai by SpikedAI</i>	Apr 2025 – Present <i>Remote</i>
<ul style="list-style-type: none">Working on AI-powered product development and implementationContributing to the development of machine learning modelsAssisting in product testing and optimization	

Skills

Languages:	TypeScript, JavaScript, Python, Java, C++, C, SQL
AI & ML:	Machine Learning, Artificial Intelligence, Data Science, Graph Neural Networks, Deep Learning
Libraries:	React, TensorFlow, Framer motion, Pandas, Scikit, Keras
Frameworks:	PyTorch, Flutter, Next.js, Bootstrap, Django, Flask
Relevant Coursework:	Data Structures, Neural Networks, Linux, Cloud Computing

Projects

GPUMesh - *High-Performance GPU Mesh Processing Framework* — [Github](#) 📄

- Developed a GPU-accelerated framework for processing large triangle meshes using patch-based data structures optimized for parallel execution on modern GPUs
- Implemented custom CUDA kernels achieving 20-120x speedups over CPU libraries and 3-8x performance gains over existing GPU frameworks
- Created high-level programming model abstracting CUDA complexity while supporting vertex normals, curvature computation, geodesics, and mesh deformation
- Achieved 30-40% memory reduction through compressed representations and optimized attribute management with structure-of-arrays design
- Built comprehensive benchmark suite including Laplacian smoothing, spectral parameterization, and physical simulation with cross-GPU compatibility

KnapsackML - *ML-powered Knapsack Problem Solver* — [Github](#) 📄

- Developed a hybrid solver for the classic Knapsack Problem that achieves 97% of optimal solution quality while reducing solving time by up to 90% compared to exact methods
- Implemented a Random Forest model with 500 estimators achieving 91% accuracy on test datasets, incorporating feature engineering with 40+ specialized metrics
- Designed solution enhancement algorithms including feasibility repair, local search optimization, and capacity maximization
- Built a comprehensive API using FastAPI with multiple solver endpoints handling 200+ requests per minute while maintaining 99% availability

QuikCart - *Flutter-based Mobile Shopping Application* — [Github](#) 📄

- Engineered a cross-platform mobile shopping application using Flutter and Dart, reducing development time by 40%
- Integrated secure payment processing with Razorpay API reducing checkout time by 35%, with Firebase Authentication for robust user management
- Optimized Dart code for 60+ fps UI with custom animations and reduced app size by 25% through efficient asset management
- Created offline-first architecture supporting local SQLite database, handling 15,000+ product catalog with 99.9% uptime

Licenses & Certifications

- CCNA: Introduction To Networks** - Cisco Networking Academy (Issued June 2025)
- Data Science for Engineers** - NPTEL (Issued April 2025)
- Introduction to Programming Using Java** - Infosys Springboard (Issued Jan 2024)

Extracurricular Experience

Senior Member at Coding Club	09/2023–Present
Member at Astra Robotics	11/2024–Present
Senior Member at RV QuizCorp	10/2023–Present
Member at CubeX	01/2024–Present