Anurag Jena

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Location: Balasore, Odisha

Summary

Full-Stack Developer, experienced in building production-ready web applications and AI-integrated systems. Strong foundation in backend fundamentals, and practical AI integrations, with hands-on experience in Computer Vision.

Experience

- **Defence Research & Development Organisation** — Chandipur, India
  Software Engineer Intern - Computer Vision — *Jun 2025 - Jul 2025*
  - **Real-Time Object Tracking System**: Built a real-time tracking system using C++ and OpenCV, achieving 92% accuracy.
  - **ROI Optimization**: Improved region-of-interest selection with Pause/Resume and FPS display add-on features, reducing false positives by 30%.
  - **Research-Grade Reliability**: Enhanced performance through testing, debugging, and code reviews with senior researchers.

Projects

- **SkillForge-AI**   *[Github][Live]*
  Next.js, DrizzleORM, OpenAI API, RAG Pipeline
  - **Personalized Project Ideas Generation**: Built an AI-driven platform to generate personalized projects and challenges based on user's skill-set, increasing engagement by 40%.
  - **RAG-Based Recommendation Intelligence**: Designed RAG pipelines with vector embeddings, improving recommendation relevance by 35%.
  - **Scalability & Low Latency APIs**: Deployed a production-ready full-stack system with less than 200ms average API response time.

- **ProBid-AI**   *[Github][Live]*
  Next.js, PostgreSQL, NLP, Transformer Models, Groq AI
  - **AI Job Proposal Creation**: Automated job proposal generation using AI, reducing creation time by 60%.
  - **Semantic Job-to-Profile Matching Engine**: Implemented semantic job-to-profile matching, improving alignment accuracy by 30%.
  - **SaaS Workflow & Concurrency Handling**: Delivered an end-to-end system supporting concurrent users.

Skills Summary

- **Languages**: C++, Python, HTML, CSS, JavaScript, TypeScript, SQL
- **Frameworks & Backend**: React.js, Next.js, Node.js, Express.js, REST APIs, JWT, OAuth
- **Databases & Cloud**: PostgreSQL, MySQL, MongoDB, Redis, AWS (EC2, S3)
- **AI/ML**: Gen AI, LangChain, Vector Embeddings, RAG, LLM Integration, OpenCV

Education

- **Balasore College of Engineering and Technology** — Balasore, India
  Bachelor of Technology - Computer Science — *Sept 2022 - Mar 2026*
  CGPA: 7.5

Achievements & Leaderships

- **Winner – BPUT Hackathon 2024:** Built a production-ready AI-powered carbon emission tracking application, selected as top solution among 100+ teams.
- **Event Coordinator – ISTE Annual Convention:** Coordinated technical events including coding contests and quizzes, managing logistics, problem design, and evaluations for 200+ participants.