Vishwas Amrutha

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EDUCATION

ACE Engineering College — Hyderabad, Telangana
Bachelor of Technology in Computer Science — *Nov. 2021 – Sept 2025*

EXPERIENCE

Graduate Engineer Trainee — Aug 2025 – Present
Insurance Information Bureau of India (IIB) - IRDAI — *Hyderabad, India*

iPRAN - Enterprise Insurance Application | *Angular 16, FastAPI, MS SQL Server*
- Led complete UI redesign for application serving **30+ General Insurance companies** across India
- Migrated authentication architecture, reducing login failures by **40%** through in-app authentication
- Engineered session-based auth with IP binding, achieving **99.9% security compliance** with rate limiting
- Architected **5 MS SQL tables** for session binding, rate limiting, and account lockouts
- Reduced automated attacks by **85%** through reCAPTCHA v3 and SMTP notification integration
- Developed admin interface managing **500+ user accounts** with secure unlock functionality
- Delivered **12 sprint cycles** using Scrum methodology with Jira tracking and peer code reviews

Fire API - Validation Processing System | *Django, Cron Jobs, Caching*
- Achieved **96% performance improvement** - reduced validation from 30 min to 77 sec for 1,500 records
- Optimized caching mechanism, reducing database queries by **70%** for faster data retrieval
- Automated **8 daily cron jobs** for scheduled validation tasks and batch processing
- Deployed to UAT and production, handling **10,000+ validation requests** monthly

IIB Official Website (iib.gov.in) | *Next.js, Strapi CMS, REST APIs, GA4* — Live Site
- Own production website serving **50,000+ monthly visitors** with full development responsibility
- Integrated Strapi CMS with **15+ content types** using REST APIs for flexible content management
- Developed **20+ reusable UI components** and CMS schemas for scalable content updates
- Improved SEO score from 65 to **95+** with auto-generated meta tags, Open Graph, and SSR
- Configured GA4 tracking **25+ custom events** for page views, route changes, and user behavior

PROJECTS

MeetingMate | *JavaScript, Chrome Extension Manifest V3, Groq API, Llama 3.3 70B* — GitHub
- Created Chrome Extension processing meeting notes in under **3 seconds** using Llama 3.3 70B
- Implemented **3 role-based perspectives** (Developer, Manager, Analyst) with **3 tone settings**
- Shipped **5 output formats**: summary, action items, follow-up email, Slack/Teams message
- Engineered privacy-first architecture with **zero data storage** and local API key management

Missed Call Explainer Bot | *Node.js, Telegram Bot API, OpenAI API* — GitHub
- Launched Telegram bot with **95% classification accuracy** using rule-based logic with AI fallback
- Constructed classification engine handling **50+ pattern rules** for 140/160 prefixes
- Implemented STD detection with city mapping for **12+ major Indian cities**
- Established **3-tier risk assessment** (Low/Medium/High) with actionable recommendations

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL

Backend: FastAPI, Django, Node.js, REST APIs, MS SQL Server, MongoDB

Frontend: Angular 16, Next.js (SSR, SSG), React, HTML5, CSS3, Responsive Design

Security: Session Authentication, Rate Limiting, Account Lockout, reCAPTCHA v3, SMTP

CMS & Analytics: Strapi CMS, Google Analytics 4 (GA4), SEO Optimization

AI/ML: OpenAI API, Groq API (Llama 3.3), Prompt Engineering, AI Classification

Tools & DevOps: Git, Jira, Agile/Scrum, AWS Amplify, Railway, Linux (Ubuntu), CI/CD