MOHAMMED IKRAM ASHRAFI

Full Stack Developer | Python & Django Specialist

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ABOUT ME

Dynamic and motivated Computer Science & Engineering diploma graduate with hands-on experience in full-stack web development using Python, Django, and React. Proficient in building scalable backend systems with REST APIs, database design, and production deployment.
Strong focus on clean code, authentication systems, and real-world problem-solving. Committed to delivering robust, production-ready solutions with a passion for collaborative development in fast-paced tech environments.

EDUCATION

BCA (Bachelor of Computer Applications) – Online
University of Mysore | Current (Pursuing)

D. BANUMAIAH'S POLYTECHNIC, MYSURU
Diploma in Computer Science & Engineering | June 2021 – May 2025

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, HTML, CSS, SQL

Backend & Frameworks: Django, Django REST Framework, Spring Boot, Flask

Frontend: React.js, React Hooks, Tailwind CSS, Bootstrap

Databases: PostgreSQL, MongoDB, MySQL, SQLite

Cloud & DevOps: AWS EC2, Render, Vercel, Environment Configuration

Tools & Platforms: Git/GitHub, Postman, PyCharm, Linux, Slack, Google OAuth, JWT Authentication, Email Services

Other Skills: RESTful API Development, Authentication Systems, Database Migrations, Email Notification Systems, File Upload Management, UI/UX Implementation, Testing (Unit & Integration), Error Handling, Production Debugging

PROFESSIONAL EXPERIENCE

Anti-Ragging Complaint Portal (Full Stack Project) | SEPTEMBER 2025 – OCTOBER 2025

Independently designed and developed a comprehensive full-stack anti-ragging complaint management system for educational institutions. Built from scratch with Python Django backend and React frontend, implementing complete workflow management with email notifications, file uploads, and multi-role authentication for 4+ user types.

Backend Development (Python & Django):
• Architected and developed Django REST APIs with complex role-based access control (RBAC)
• Implemented 4 distinct user roles with specific permissions: Admin, Principal, Squad Members, Students
• Built secure JWT token-based authentication system with Google OAuth integration for seamless login
• Designed normalized PostgreSQL database schema with proper relationships, migrations, and indexing
• Developed complaint submission API endpoints with validation and error handling
• Implemented complaint tracking and status management system (Pending, Under Review, Resolved)
• Built email notification system: automated alerts to Admins, Principals, and Squad Members for new complaints, status updates, feedback, and resolution notifications
• Created custom middleware for permission validation and role-based request processing
• Built comprehensive admin dashboard backend with analytics APIs (complaints count, resolution metrics, status distribution, user activity tracking)
• Implemented file upload functionality with proper storage for evidence/documentation
• Developed feedback system for complaint resolution and user satisfaction tracking
• Used Postman for thorough API testing, validation, and comprehensive documentation
• Followed Git version control with meaningful commits throughout development lifecycle

Frontend Development (React):
• Built responsive and intuitive UI using React with Tailwind CSS and Bootstrap

• Implemented dynamic complaint submission dashboard for students with form validation
• Created complaint tracking interface showing real-time status updates and history
• Designed role-specific views: Students (submit/track), Squad Members (manage), Principals (monitor/report), Admin (oversight)
• Developed notification center showing all email alerts and system messages
• Built feedback form system for complaint closure and resolution feedback
• Implemented Google OAuth login integration for secure and seamless authentication
• Optimized responsive UI/UX for desktop and mobile devices with proper accessibility

Deployment & Production Management:
• Successfully deployed production application on Render with 99% uptime
• Configured environment variables for security best practices (API keys, database credentials)
• Implemented proper database connection pooling and optimization
• Debugged and resolved critical production issues: 502 Bad Gateway errors, PostgreSQL connection pooling, CORS configuration, OAuth token management, API endpoint optimization, database query optimization

Tech Stack: Python, Django, Django REST Framework, React, React Hooks, Tailwind CSS, PostgreSQL, JWT, Google OAuth, Email Services (SMTP), Render, Postman, Git

AI Chatbot Application (Full Stack) | ONGOING PROJECT

Developed and deployed a full-stack AI chatbot application with Django backend, React frontend, and Google Gemini AI integration, managing the complete deployment pipeline on production servers with conversation history management.

• Built Django REST backend with PostgreSQL database for persistent conversation history
• Integrated Google Gemini API for AI-powered intelligent responses and context awareness
• Implemented JWT-based user authentication with Google OAuth login for security
• Created React frontend with interactive conversation UI, message history, and user dashboard
• Built real-time message streaming and response handling for smooth user experience
• Deployed on Render with environment variable management and security best practices
• Debugged production issues: database connections, CORS, OAuth token management
• Implemented comprehensive error handling and API response optimization
• Built admin dashboard for conversation analytics and system monitoring

Tech Stack: Python, Django, React, PostgreSQL, Google APIs, JWT, Render

SKILLS SUMMARY

Full-stack web development (Django + React) with production deployment experience | Python backend development and RESTful API design with proper error handling | Complex role-based authentication and authorization systems (RBAC) | PostgreSQL database design, migrations, optimization, and query performance tuning | Email notification systems and automated alert management | File upload and document management systems | Production deployment and cloud DevOps (Render, AWS EC2, Vercel) | Advanced debugging and production issue resolution under pressure | Third-party API integration (Google OAuth, Google Gemini, Email Services) | Version control and collaborative development (Git/GitHub) | Responsive UI/UX design and implementation

CERTIFICATIONS & NOTABLE ACCOMPLISHMENTS

• Built and deployed 2+ production-ready full-stack Django + React applications
• Successfully transitioned from Java/Spring Boot to Python/Django and rapidly mastered framework
• Demonstrated expert-level debugging of production environment issues
• Implemented complex multi-role authentication systems in real-world applications
• Engineered email notification system handling multiple notification types and user preferences
• Proficient in managing complete development lifecycle from design through production deployment
• Self-taught in Django through project-based learning and continuous improvement