GABRIEL IDENYI

Software Engineer

Email: idenyigabriel@gmail.com

Github: github.com/idenyigabriel

PROFESSIONAL SUMMARY

Software Developer with 5+ years of end-to-end engineering experience, specializing in system architecture, backend and API development. Demonstrated ability to design and implement clean, efficient, and resilient solutions using Python, Django, Flask, Django REST Framework (DRF), WebSockets, etc. Adept at converting complex architectural requirements into robust, production-ready implementations that support real-world operational demands.

Core Strengths: System Architecture Design, Code Debugging & Troubleshooting, Technical Mentorship & Knowledge Transfer, Scalable Backend Development, Real-Time Systems

TECHNICAL EXPERTISE

Languages: Python, JavaScript, SQL (PostgreSQL), Bash, C/C++

Backend and APIs: Django, Django REST Framework (DRF), Flask, REST API Design, WebSockets

Frontend: React.js, Next.js, jQuery, Modern JavaScript (ES6+)

Databases and Caching: PostgreSQL, Redis, Database Optimization, Query Performance Tuning

DevOps & Infrastructure: Docker, Git/GitHub, Linux (Ubuntu, Debian), Nginx.

Message Queues & Async: Celery, RabbitMQ, Kafka, Task Queue Management,

Specialized Skills: Web Scraping & Data Extraction, Embedded Systems (Hardware/Firmware), Technical Documentation, Code Review & Mentorship

PROFESSIONAL EXPERIENCE

Software Engineer | Uobis | 2021 – Present

Lead engineer responsible for end-to-end development lifecycle, from requirements analysis through architecture design, implementation, deployment, and ongoing maintenance of mission-critical applications serving thousands of users.

Learning Management System (LMS) Platform

• Architected and developed a comprehensive LMS from ground up, currently serving 8,000+ students across 500+ courses with 80+ active instructors.

• Implemented WebWork integration with LTI 1.2 Advantage standard for automated grade passback and seamless third-party tool integration.

• Designed scalable database schema and caching strategies to handle concurrent user loads during peak enrollment periods.

• Built robust authentication system with role-based access control supporting multiple user types (students, instructors, administrators).

Agency Banking Platform Modernization

• Led complete rebuild of legacy banking platform, transforming system architecture to support 2,000+ agents processing thousands of daily financial transactions.

• Enhanced system resilience with comprehensive error handling, transaction rollback mechanisms, and detailed audit logging.

• Debugged and resolved critical production issues affecting transaction processing.

Multi-Branch Car Hire & Mobility Platform

• Designed and implemented sophisticated backend architecture for fleet management systems spanning multiple branch locations.

• Developed intelligent driver dispatch algorithm with real-time availability tracking and automated assignment logic.

• Built WebSocket-based notification system delivering instant updates to drivers and customers regarding trip status changes.

• Implemented trip tracking, management, and payment processing workflows handling complex business rules.

Additional Projects & Contributions

• Built school aggregation portal consolidating information from multiple educational institutions

• Designed transactional notification infrastructure supporting email, SMS, and push notifications with delivery tracking

• Developed a News aggregation feed platform.

Mentorship & Knowledge Sharing

• Mentored 5+ junior and mid-level developers, conducting code reviews and pair programming sessions

• Led technical workshops on debugging techniques, system design principles, and programming best practices.

Freelance Backend Engineer | Toptal |2022 – Present

Elite member of Toptal's vetted network of top 3% software engineers, serving enterprise clients through rigorous selection process validating advanced technical capabilities**.**

• Successfully navigated multi-stage screening including live coding assessment, system design evaluation, and comprehensive project portfolio review

• Demonstrated mastery of algorithms, data structures, architectural patterns, and practical implementation across diverse technology stacks

Embedded System Intern | Atopet | 2018 (6 Months)

Designed and implemented embedded software prototypes integrating hardware components with custom firmware.

Projects:

• Smart Home Automation Prototype: Developed IoT-based control system for lighting, temperature, and security monitoring.

• Automated Gas Detection System: Built safety monitoring solution with real-time alerting capabilities.

• Automated Power Management: Created intelligent power switching system with remote control functionality.

OPEN SOURCE CONTRIBUTIONS

Creator and Maintainer | DRF Authentify

Published and actively maintained an open-source authentication and authorization library for Django REST Framework, addressing common pain points in API security implementation.

• Designed developer-friendly API prioritizing security best practices and extensibility.

• Implemented comprehensive documentation and example implementations.

EDUCATION

Bachelor of Engineering (B.Eng)

Relevant Course Works: Mathematics & Algebra, Computer Architecture, Micro Programming, Artificial Intelligence, Neural Networks, Advanced System Programming and Writing Techniques, Real Time Computing & Control, Software Programming and Development Lifecycle, Software Project Management, Object Oriented Programming, Structured Programming, Commercial Programming Language, Operating Systems, Algorithms and Data Structure.

PROFESSIONAL ATTRIBUTES

• **Debugging Excellence:** Systematic approach to identifying and resolving complex production issues, often serving as escalation point for critical bugs

• **Passionate Learner:** Continuously expanding technical knowledge through personal projects, open source contributions, and emerging technology exploration

• **Teaching & Mentorship:** Natural educator who enjoys breaking down complex concepts and empowering others to grow their skills

• **Quality Focused:** Strong advocate for clean code, comprehensive testing, and maintainable architecture

• **Communication:** Proven ability to translate technical concepts for non-technical stakeholders and document complex systems clearly