

Edgar Diaz-Gutierrez | Software Engineer

New York, NY | 619-750-4888 | edgar.s.dzgz@gmail.com

LinkedIn: <https://linkedin.com/in/edgar-dzgz> | GitHub: <https://github.com/edgarsdzgz>

Portfolio: <https://edgar.technology> Website: <https://dystopianoutcasts.wiki>

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES6+), Python, Java, SQL, HTML5, CSS3

Frontend: React 18, React Router, React Native, TanStack Query (React Query), Vite

Backend & Database: Django, Kubernetes, Docker, Node.js, Express, Flask, Supabase, PostgreSQL, MySQL

Authentication & Security: OAuth 2.0, JWT, bcrypt, Row-Level Security (RLS)

AI-Enhanced Development: Expert in leveraging AI assistants (Claude Sonnet/Opus, ChatGPT GPT-4/o1, Cursor) for accelerated development, code generation, architectural planning, debugging, and production-ready code optimization. Proficient in prompt engineering and AI-assisted pair programming to improve development velocity by 3-5x

Tools & Platforms: Git/GitHub, Docker, npm, ESLint, VS Code, AWS, Kali Linux, Google Apps Script

Design Patterns: Service Layer, Facade, Provider Pattern, Hooks Pattern, Component-Based Architecture

Concepts: RESTful API Design, OOP, Data Structures & Algorithms, Agile/Scrum, CI/CD, State Management, Database Design & Optimization, Full-Text Search, Real-time Subscriptions, Type Safety

EXPERIENCE

Valcom | (Remote) | SE-2 | Jan 2022 - Present

- Interact with Python backend using Django and some tech with FastAPI. Focusing on REST API patterns, JWT token security, and ensuring that the front end uses encrypted storage for tokens (especially for mobile).
- Working on Typescript Codebase, backed by Node.js, for backend development helps engineer distributed systems with RabbitMQ and worker services, to delegate requests between the front and the backend.
- Leveraged AI-assisted development (Claude) to accelerate planning, weighing, coding, and testing achieving 3-5x faster refactoring while improving code quality, performance, and maintainability through AI-powered code analysis and architectural recommendations
- Using Docker/Kubernetes containers in order to have consistent dev workflow in the team
- Architected emergency command-and-control web application for schools & hospitals using TypeScript, Node.js, Express, and React with AI-driven development workflows for rapid prototyping and production-quality code generation
- Built and optimized React components with lazy loading and code splitting, improving UI performance by 40% and reducing bundle size by 30%; utilized AI pair programming to identify performance bottlenecks and generate optimized component patterns
- Designed RESTful API endpoints with Express and PostgreSQL using AI-assisted prompt engineering for comprehensive data validation, authentication middleware, and role-based authorization logic; reduced development time by 50% while maintaining security best practices
- Provided AI development mentorship to team members, training 5+ engineers on effective prompt engineering, AI-assisted debugging techniques, and production-ready code generation workflows; established team standards for AI tool usage and code review processes
- Collaborated with UX designers and DevOps to integrate new features under bi-weekly Agile sprints, delivering 15+ feature releases on schedule; introduced AI-powered development practices that increased team velocity by 35% without compromising code quality

Coding Dojo | (Remote) | Instructor, Programming & Cybersecurity | Dec 2020 - Jan 2024

- Delivered full-stack web development (TypeScript, Python) and cybersecurity bootcamp courses to cohorts of 50+ students

- Developed hands-on labs and capstone projects, emphasizing problem-solving and real-world application scenarios
- Achieved 90% pass rate for Security+ certification and 85% job placement rate for software development graduates
- Authored course materials and contributed to continuous curriculum improvement based on industry feedback

SELECTED PROJECTS

Dystopian Outcasts Wiki - Full-Stack Community Platform

[GitHub: [dystopianoutcasts/dystopianwiki](https://github.com/dystopianoutcasts/dystopianwiki)]

- Architected production-ready community wiki for Project Zomboid modding using React, TypeScript, and Supabase with comprehensive authentication system
- Implemented secure OAuth 2.0 authentication (Discord, Google) and custom email/password signup with real-time form validation, password strength indicators, and Terms of Service integration
- Designed scalable backend with PostgreSQL featuring Row-Level Security (RLS), database triggers for automated profile management, and case-insensitive username uniqueness using generated columns
- Built efficient state management using TanStack Query with optimistic updates and intelligent caching, reducing API calls and providing instant user feedback
- Engineered full-text search functionality using PostgreSQL tsvector, enabling fast content discovery across 100+ modding articles and tutorials
- Technologies: React 18, TypeScript, Supabase, PostgreSQL, TanStack Query, OAuth 2.0, Vite, React Router
- Features: Multi-provider authentication, Real-time validation, User bookmarks, Reading progress tracking, Mobile-responsive design
- Architecture: Service Layer pattern, Facade pattern, Component-based UI, BEM CSS methodology, Type-safe API integration

RTK Query Frontend Application

[GitHub: [edgarsdzgz/rtk-query-basic](https://github.com/edgarsdzgz/rtk-query-basic)]

- Built modern React application demonstrating advanced state management with RTK Query and TypeScript, showcasing efficient data fetching and caching patterns
- Implemented automated API request optimization reducing redundant network calls by 75% through intelligent caching mechanisms
- Demonstrated mastery of Redux Toolkit Query for scalable frontend architecture, serving as reference implementation for enterprise-level applications
- Technologies: React, TypeScript, RTK Query, Redux Toolkit, Modern JavaScript
- Impact: Reusable architecture pattern adopted by development team for production applications

TypeORM Banking Application Backend

[GitHub: [edgarsdzgz/typeorm-backend-basic](https://github.com/edgarsdzgz/typeorm-backend-basic)]

- Architected secure banking web application backend using TypeScript, Express, TypeORM, and Node.js with robust financial transaction handling
- Implemented type-safe database operations and automated migrations, reducing runtime errors by 90% and improving code maintainability
- Designed RESTful API endpoints with comprehensive input validation and error handling for critical financial operations
- Technologies: TypeScript, Express, TypeORM, Node.js, PostgreSQL/MySQL, Banking APIs

- Features: Secure transactions, Type safety, Database migrations, Financial compliance

EDUCATION

B.A. Theater, San Diego State University

Full Stack Web Development Certificate, Coding Dojo (Top of Class)

CERTIFICATIONS

Full Stack Web Development Certificate, Coding Dojo (Java & Python) | Top of Class, 2023

ServiceNow Systems Administrator, ServiceNow Cert No. 26942562