FELIX FERNANDEZ

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PROFESSIONAL SUMMARY

Results driven Software Architect and Technical Lead with 7 years of experience engineering enterprise scale applications, AI systems, and high performance data pipelines. Proven expertise in aligning complex technical architecture with critical business objectives. Demonstrated by scaling ETL platforms to process hundreds of terabytes daily and reducing financial reporting times from weeks to hours. Adept at leading development teams, establishing secure enterprise foundations (IAM, RBAC), and leveraging .NET Core, Angular, Python, and SQL to drive system wide operational excellence.

TECHNICAL SKILLS

- **Frameworks**: .NET Core, ASP.NET, Angular, React, CodeIgniter, Flask, Drupal
- **Databases**: SQL Alchemy, MySQL, MSSQL, PostgreSQL
- **Infrastructure**: Azure, AWS, Linux, Git
- **Languages**: Python, C#, PHP, JavaScript, SQL, Java, HTML, CSS, R, MATLAB

WORK EXPERIENCE

Full Stack Developer | PetVet Care Centers | Westport, CT | **Aug. 2023 – Present**

- Collaborated continuously with executive leadership, conducting weekly C suite meetings and partnering daily with the VP of IT to architect software and database designs that strictly align technical solutions with business objectives.
- Served as Interim Lead Developer and AI Lead, directly managing a team of four developers while simultaneously building and overseeing the organization's internal AI development team and initiatives.
- Engineered a centralized Identity & Access Management (IAM) API, establishing a unified "Source of Truth" for company wide user governance. This system enabled global administration of user lifecycles, dynamic application specific Role Based Access Control (RBAC), and consistent security standards across the ecosystem.
- Architected an enterprise level DLL acting as the single source of truth for corporate data models and core utilities, standardizing data structures across the application ecosystem and accelerating the deployment of new services.
- Designed and built "Watchdog" (.NET Core, Angular), a highly dynamic ETL platform processing hundreds of terabytes of data daily across 700+ clinics and hospitals, utilizing comprehensive authentication protocols (OAuth, SFTP, Basic, AWS, Azure).
- Developed and maintained complex ETL UI systems, allowing users to intuitively schedule data extracts/loads, customize column mappings, execute pre and post load stored procedures, and manage massive data pipelines.
- Created "Data Farm" (.NET Core, Angular), an automated financial application integrating diverse finance tools that drastically accelerated the company end of month reconciliation process, reducing processing time from 3 weeks to just 2 hours.
- Developed an AI driven SKU classification system (Python, MSSQL) that intelligently categorizes master line items (service, inventory, etc.), eliminating manual categorization bottlenecks and streamlining global inventory management.
- Built a scalable Angular application template utilized as the foundational framework for all future internal apps, ensuring UI consistency and enabling centralized, cascading updates across the software ecosystem.
- Orchestrated a complex SQL Server upgrade (2013 to 2024), successfully migrating all enterprise applications, jobs, and queries within a single day while expertly coordinating downtime to ensure minimal operational disruption.

Lead Full Stack Developer | Southern CT State University | New Haven, CT | **Sept. 2019 – Aug. 2023**

- Directed and mentored a team of four developers in the design, development, and day to day operations of university web applications. Streamlined onboarding and team collaboration by comprehensively documenting system processes and workflows in Confluence.
- Spearheaded the restructuring of legacy systems by consolidating 12 standalone databases into a single, comprehensive database schema, significantly reducing data redundancy and optimizing application maintenance.
- Designed, programmed, and maintained front end and backend systems using PHP, MySQL, and JavaScript. Completely refactored the codebase into a modern MVC (Model View Controller) architecture, reducing system load times by 50%.
- Led server migration initiatives and established safe deployment protocols by setting up Git (GitHub) version control. Built a fully functional staging/testing environment to protect live sites during development.
- Engineered and managed a suite of critical operational applications, including:
  - Residence Life & Hall Director Portals: Developed the new Residence Life homepage and custom backends to track overnight stays, equipment checkout, timeclocks, packages, and key management.
  - Access Control Systems: Built comprehensive Student and Guest Sign In systems supporting approximately 2,000 students, featuring automated ID verification and stay duration tracking.
  - HR/SAP Portal: Created an internal portal for staff to manage employee onboarding, offboarding, and system access permissions.
  - Event Funding Portal: Developed a program portal to streamline the approval workflow for departmental events, efficiently managing and processing hundreds of thousands of dollars in funding.
- Implemented Linux cron jobs to automate daily functions, notifications, and background data retrieval, significantly reducing manual administrative workloads.
- Utilized Drupal to build, update, and maintain the university's main public website and multiple subsidiary sites, ensuring consistent security, UI/UX, and theme updates.

EDUCATION

Massachusetts Institute of Technology | Boston, MA
Certificate in Data Science and Machine Learning | Top 10
Southern Connecticut State University | New Haven, CT
Bachelor of Science, Computer Science | Minor in Mathematics
University of Connecticut | Stamford, CT
Associate of Engineering, Mechanical Engineering