EDUARDO J. RODRIGUEZ

Software Engineer | Automation Specialist | AI/ML Engineer

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PROFESSIONAL SUMMARY

Software engineer with proven expertise in building enterprise-scale automation solutions and data-driven applications. Specialized in Python development, RPA implementation, and API integrations with a track record of processing 120,000+ annual transactions through custom-built systems. Currently pursuing Master's in Computer Science with AI concentration to expand machine learning capabilities. Experienced in leading Agile teams and translating complex business requirements into scalable technical solutions.

TECHNICAL SKILLS

Languages:	Python, SQL, C#, JavaScript, PowerShell, HTML/CSS
Frameworks/Tools:	UiPath, REFramework, .NET, React, Node.js, Django, Flask
Databases:	SQL Server, PostgreSQL, MongoDB, Redis, Database Design & Optimization
Cloud/DevOps:	Azure, AWS (EC2, S3), Docker, CI/CD, GitHub Actions, Jenkins
APIs/Integration:	REST APIs, GraphQL, OAuth 2.0, Webhooks, JSON, XML, SOAP
Analytics/BI:	Power BI, Tableau, Pandas, NumPy, Data Visualization, ETL Pipelines
Methodologies:	Agile/Scrum, TDD, SDLC, Process Mining, Six Sigma, Design Patterns

TECHNICAL PROJECTS

Customer Analytics & Review System (C.A.R.S.)
Python, SQL Server, REST API, Power BI

- Architected scalable analytics platform processing 100,000+ annual customer interactions with 99.9% uptime
- Implemented RESTful API integrations connecting 71 distributed locations to centralized data warehouse
- Reduced query response time by 40% through database indexing and stored procedure optimization
- Built real-time dashboard using Power BI with automated alerting for critical KPI deviations

Social Review Analysis Algorithm
Python, NLP, TensorFlow, scikit-learn

- Developed sentiment analysis model achieving 87% accuracy using natural language processing
- Implemented web scraping solution to aggregate reviews from multiple platforms using BeautifulSoup
- Created automated categorization system processing 10,000+ reviews monthly for actionable insights

Custom CRM Development
JavaScript, Node.js, SQL, React

- Built full-stack CRM application reducing manual customer interactions by 35%
- Designed RESTful API with JWT authentication and role-based access control
- Implemented automated workflow engine using event-driven architecture

RPA Workflow Automation Suite   *UiPath, C#, Power Automate, Python*

- Developed 15+ RPA bots using UiPath REFramework, saving 2,000+ manual hours annually
- Created exception handling and logging framework achieving 95% success rate in production
- Integrated with multiple APIs and legacy systems using custom C# activities

PROFESSIONAL EXPERIENCE

Software Development Lead   *July 2023 - Present*

Ed Napleton Automotive Group | Corporate Technology Division

- Lead development of enterprise-wide automation platform using Python and UiPath, serving 71 locations
- Architected microservices-based system handling 120,000+ annual transactions with 15ms average response time
- Implemented CI/CD pipeline using GitHub Actions, reducing deployment time from 4 hours to 15 minutes
- Managed Agile development team of 8 engineers using Scrum methodology and JIRA
- Designed and deployed REST API integrations with third-party services using OAuth 2.0 authentication

Technical Operations Developer   *April 2021 - July 2023*

Napleton Technology Services | River Oaks Division

- Developed automated warranty processing system using Python, reducing processing time by 60%
- Built SQL Server database schema supporting 50,000+ records with optimized indexing strategy
- Created PowerShell scripts for system monitoring and automated maintenance tasks
- Improved application performance by 20% through code refactoring and query optimization

Process Automation Specialist   *March 2017 - April 2021*

Joe Rizza Technology Group | Orland Park

- Designed appointment scheduling algorithm reducing wait times from 17 to 5 days using Python
- Implemented automated testing framework increasing code coverage from 20% to 75%
- Developed data migration scripts for legacy system modernization affecting 30,000+ records

Junior Developer & Team Lead   *July 2012 - March 2017*

Hawk Technology Solutions | Oak Lawn

- Built custom pricing optimization engine using Python and SQL, driving 110% revenue growth
- Led technical team of 20+ members through Agile transformation, improving velocity by 40%
- Developed automated deployment scripts reducing production errors by 85%

EDUCATION

Master of Science in Computer Science (AI Concentration)

Strayer University | Starting October 2025

Focus Areas: Machine Learning, Neural Networks, Deep Learning, Natural Language Processing, Computer Vision

Bachelor of Science in Computer Science

Strayer University | Graduated September 2025

GPA: 4.0/4.0 • Summa Cum Laude • President's List (All Semesters) • SCLA Member

Associate of Science in Computer Science

Strayer University

GPA: 4.0/4.0 • Summa Cum Laude • President's List (All Semesters)

CERTIFICATIONS

• UiPath Certified RPA Developer (UiARD) - 2025

• Six Sigma Yellow Belt - 2025

• AWS Cloud Practitioner (In Progress)

• Microsoft Azure Fundamentals (In Progress)

• TestOut PC Pro & Network Pro

• Managerial Accounting - University of Illinois

ADDITIONAL INFORMATION

Open Source: Active contributor to automation and Python projects on GitHub

Availability: Available for on-site work in Chicago area, open to remote opportunities

Clearance: Eligible for security clearance

Languages: English (Native), Spanish (Conversational)