

Iain Ramirez

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Education

University of Virginia, Charlottesville, VA

Expected May 2028

- B.S. Systems Engineering, Concentration in CPE | Minors: CS and Applied Math
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Work Experience

Incoming **Amazon Systems Development Engineer Intern** | Summer 2026

GenAI Research Assistant, University of Virginia, September 2025 - Present

- Designed and executed a large-scale study evaluating the reliability of large language models across 60,000+ synthetic documents, systematically analyzing how factors such as noise, length, and information placement impact extraction accuracy and downstream database construction.
- Co-authoring a paper targeted for submission to the Journal of Statistical Software (June 2026) and leading development of an open-source R package to support reproducible LLM evaluation workflows.
- Research accepted for presentation at the International Meeting of the Psychometric Society (IMPS 2026) in Seoul, South Korea, and featured by UVA in a published article highlighting our team's approach to evaluating "artificial minds."

ML Research Assistant, Bekiranov Lab - University of Virginia, September 2025 - Present

- Conducted large-scale experimentation on single-cell B-cell datasets using the ProtoCell4P framework, running 4,000+ model configurations across the UVA High Performance Computing cluster; developed parallelized Slurm pipelines to enable efficient hyperparameter sweeps and reduce training time by 97%.
- Identified high-performing regions of the hyperparameter space through heatmap-based analysis, informing optimized training strategies and improving model performance (ROC-AUC 0.51 → 0.70).

Freelance Web and Automation Consultant, May 2024 - December 2025

- Delivered full-stack sites and automation systems for 7 organizations (UVA Club Grappling, UVA Muay Thai, UVA Girls Who Lift, UVA Plushies for Patients, MM Yoga, The Golf Mission Tour and SFS Baseball), supporting 3000+ users and bringing in 10,000+ site visits in the first month across sites
- Built signup and scheduling platforms that replaced manual workflows and saved client teams 4-6+ hours/week

Chess Coach, Silver Knights, Summer 2025

- Coached groups of 10-60 students, fostering competitive growth and teamwork

AI/ML Intern, Setty and Associates, Summer 2023

- Built ML models for part-failure prediction and prototyped LLM document ingestion (LlamaIndex).

SWE Intern, EFSI (NASA Subcontractor), Summer 2022

- Tested core flight software in Linux VMs; verified fixes to improve reliability of satellite build processes
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Projects:

Founder/Engineer, Fighterforecast.com, Summer 2025

- Built end-to-end ML prediction pipeline for UFC fight outcomes (8,000+ matches, 40+ engineered features) using Python, SQL, and automated web scraping infrastructure.
- Improved out-of-sample accuracy to 66% (vs. 50% baseline), simulating 10%+ annual ROI using Kelly criterion-based bankroll optimization models.
- Designed and deployed full-stack web application (PHP, TailwindCSS), attracting 200+ followers and 20,000+ social media views.