

# Erick Damian Cabrera

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## EDUCATION

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**Hunter College, CUNY** · New York, NY

*Graduated June 2023*

**Bachelor of Science, Computer Science** · Minors: Economics & Mathematics

**Relevant Coursework:** Operating Systems · Computer Architecture I & II · Database Management · Object-Oriented Programming · Software Analysis & Design I–III · Computer Theory · Discrete Structures · Capstone

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, C++, Dart, Swift, Bash, Perl, MIPS Assembly

**Web / APIs:** React, Node.js, Express, Axios, REST APIs, HTML, CSS

**AI / ML:** PyTorch, Scikit-learn, NumPy, Matplotlib — Neural Networks, Backpropagation, Gradient Descent, Batching, Epoch Scheduling, Learning rate decay

**Databases:** SQL, MySQL, PostgreSQL, MongoDB, SQLite, Firebase

**Cloud / DevOps:** AWS EC2, AWS S3, AWS Route 53, AWS CloudWatch, AWS CLI, Elastic IP, NGINX, Apache, PM2, CI/CD, Google Cloud

**Mobile:** Flutter / Dart, Swift, CoreData, Google Maps API, Firebase Auth

**Tools:** Git, GitHub, Linux / UNIX, VS Code, Xcode, VIM

## PROJECTS

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**Full-Stack Web Application | TekintraLLC v2.0** | New York, NY

*Feb 2025 – Present*

[github.com/MarceloDamian/TekIntraLinked\\_Website](https://github.com/MarceloDamian/TekIntraLinked_Website) · [tekintralinked.com](https://tekintralinked.com)

- ▶ Architected and deployed a production full-stack web application using React.js, Node.js, and Axios with RESTful APIs, implementing user authentication, newsletter management, and transactional email via Email.js and Resend.
- ▶ Deployed to AWS EC2 (t3.small); configured NGINX as a reverse proxy for ports 80/443, generated a self-signed SSL certificate, and created a swapfile for an earlier t2.micro version to overcome heap-limit memory constraints.
- ▶ Integrated AWS S3 for scalable static asset storage and configured PM2 as a process manager to ensure zero-downtime restarts and persistent background service on the Linux server.
- ▶ Used AWS Route 53 to route a GoDaddy custom domain ([tekintralinked.com](https://tekintralinked.com)) to the EC2 instance via Elastic IP; monitored CPU utilization, NetworkIN, and disk write metrics through AWS CloudWatch.

**Mobile Application — iOS & Android | ParkerUp** | Personal Project

*Aug 2024 – Present*

[github.com/MarceloDamian/ParkerUp](https://github.com/MarceloDamian/ParkerUp)

- ▶ Developed a community-driven peer-to-peer parking navigation app in Flutter/Dart targeting both iOS and Android; migrated from Swift to Flutter to achieve cross-platform scalability from a single codebase.
- ▶ Integrated 8+ APIs including Firebase Authentication, Google Cloud, Google Maps SDK, and custom user-data endpoints to manage real-time data flow, user sessions, and geolocation services.
- ▶ Led a full CI/CD design cycle: conducted UI/UX analysis and prototyping with wireframes before development, reducing implementation rework and aligning on product requirements early.

**ML Image Classifier | MNIST Neural Network** | Personal Project

*Jul 2022 – Present*

[github.com/MarceloDamian/MLNeuralNetwork](https://github.com/MarceloDamian/MLNeuralNetwork)

- ▶ Engineered a multi-layer neural network from scratch using only Python and NumPy (no ML frameworks) to classify handwritten digits from the MNIST dataset, achieving over 96% test accuracy.
- ▶ Implemented batch processing and epoch-based training loops to improve training stability and convergence speed, significantly outperforming the original single-pass implementation.
- ▶ Optimized model performance by introducing a learning rate decay schedule, enabling finer gradient updates in later epochs and eliminating oscillation near the loss minimum.
- ▶ Built numerically stable forward-pass and backpropagation routines using He's initialization for Leaky ReLU layers; designed an OOP interface allowing arbitrary network architectures to be defined via simple tuple configs.