

ALEX LOPEZ

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EDUCATION

University of Pennsylvania, Philadelphia, PA
Master of Science in Engineering, Data Science

Expected May 2027
GPA 4.0/4.0

Dartmouth College, Hanover, NH
Bachelor's Degree, Major in Computer Science, Minor in Digital Arts

June 2023

WORK EXPERIENCE

Software Engineer

November 2024 - Present

JLS Mailing Services, Brockton, MA

- Developed **internal C# programs** to automate printing reports and reprint detection using intelligent inserter machine data, eliminating manual reprint/report processes
- Built 10+ Racami **data processing workflows** to automate jobs from important clients including Harvard Pilgrim, American Tower, MA Office of Travel & Tourism, and numerous municipalities of Massachusetts
- Created a **real-time dashboard monitoring 20+ core systems**—including QuickBooks, Midnight CRM, Presort EMS, and machinery software—enabling early issue detection and minimizing downtime

Senior Software Engineer, Development Mentor

September 2019 - June 2023

Dartmouth Applied Learning and Innovation Lab (DALI), Hanover, NH

- **Led 10+ teams** to develop mobile and web applications for start-ups, entrepreneurs, and researchers over 10-week terms of paid work within an on-campus incubator at Dartmouth
- Mentored 30+ developers on best coding, testing, deployment, and documentation practices for **full stack React projects**
- Managed meetings between DALI members and project stakeholders, ensuring **seamless communication of technical progress** and delivery of high-quality products in fast-paced sprints

Senior Software Engineer, Development Mentor

September 2022 - November 2022

DALI Project: BayesEM, Hanover, NH

- Built a **clinical support app for 200+ emergency staff** at Dartmouth DHMC to aid diagnostic decisions
- **Designed a Bayesian inference system** integrating symptom survey data and medical literature to suggest likely diagnoses
- Improved diagnosis alignment with expert consensus by 40% and reduced data entry/retrieval time by 25% in pilot tests

Full Stack Software Engineer Intern

June 2022 - September 2022

ConnectUS, Miami, FL

- Enhanced ConnectUS **CRM meeting scheduler** with added flexibility for time slots and group meetings
- Designed and implemented features including logo customization and **team management dashboards**
- Improved average scheduling time by 20%, and boosted post-update user feedback scores by 30%

Software Engineer Intern

June 2021 - September 2021

Lionheart Foundation, Dedham, MA

- Developed the EQ2 mobile app for Lionheart, used in juvenile justice programs across **20,000+ institutions nationwide**
- Implemented emotional goal tracking, daily mood check-ins, and **integrated multimedia learning modules** using AWS S3

CERTIFICATIONS

IBM Full Stack Cloud Developer - Professional Certificate

March 2024

AWS Certified Solutions Architect - Associate

February 2024

AWS Certified Cloud Practitioner

September 2023

SKILLS & INTERESTS

Programming: TypeScript, JavaScript, React, React Native, Node, Express, C#, ASP .NET, Python, Java, Angular, CSS, HTML, Git, GitHub, NextJS, NestJS, MongoDB, SQL, AWS, Docker, Kubernetes, Unity

Other technologies: Racami Workflows, BCC Mail Manager, Planet Press Designer & Workflows, Microsoft Excel

Languages: English (fluent), Spanish (native), German (Intermediate)

Interests: UI/UX Design (Figma), Task Management & Optimization, Boxing, Archery, Peruvian Cuisine, Board Games