

Ian M. Lamont | Software Engineer

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Focused, hardworking, and quick learning computer scientist skilled in low-level programming, distributed systems and machine learning. Experienced with team leadership and industry standard tools in professional settings. Motivated to join an agile and technical team to develop skills and build products that impact people across the globe.

Learn more about me here: imlamont.com, and view some selected projects here: imlamont.com/projects.html

Education

University of Pennsylvania, School of Engineering and Applied Science

Philadelphia, PA

Candidate for Bachelor of Science in Engineering (GPA: 3.55)

May 2026

Major: Computer and Information Science; Minor: Mechanical Engineering and Applied Mechanics

Candidate for Masters of Science in Engineering in Computer and Information Science (GPA: 3.30)

May 2027

Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics, Computer Architecture, Interactive Computer Graphics, GPU Architecture, Applied Machine Learning, Operating Systems, Databases, Distributed Systems

Work Experience

Connectify, Inc.

Philadelphia, PA

Systems Engineering Intern

June - August 2025

- Modified OpenWRT firmware for proprietary router hardware including integrating VPN application across the LAN and developed lightweight hardware monitoring daemon with web-based anomaly detection and analysis
- Prototyped anomaly detection system for network attacks using lightweight autoencoder architecture for deployment on embedded hardware for real-time CPU inference with 98% accuracy
- Assessed and developed FinOps infrastructure leading to \$12,000 in realized annual savings on server rightsizing
- Developed team wide and company wide presentations as well as participated in daily scrums

Full-Stack Intern

May - June 2022

- Implemented redesigned backend invoicing system with the Factory Method Design Pattern to efficiently collect sales data from different vendor APIs and ready it for end users and customers, deployed company wide
- Maintained customer-facing invoice portal using tools such as Bootstrap and Figma and remapped API routes
- Wrote comprehensive unit tests and documentation per company standards for clean and organized code

University of Pennsylvania, Data Center Research Group

Philadelphia, PA

Research Assistant

January 2025 - Current

- Aggregate and analyze data center cooling techniques to understand power and water consumption, combining skills in computer science and mechanical engineering to model potential technologies
- Utilized machine learning and artificial intelligence models mirroring Meta techniques to study prospective data center cooling requirements based on cooling technique, climate, and local resources

CoPact.ai

Philadelphia, PA

Business Strategy and Technology Analyst

February - June 2025

- Utilized Customer Relation Management (CRM) software to consult on AI powered technology transformation
- Owned social media and built cohesive branding across website and social media, gaining 1000+ followers

The Daily Pennsylvania, Inc.

Philadelphia, PA

Innovation Lab Project Manager

September 2024 - May 2025

- Led team to create subletting app to solve a problem in the local community using novel web development stack
 - Implemented backend API for MySQL data storage and the use of Google Authentication for user security
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Skills

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|-------------------------|-------------------------------|----------------|------------------------|-------------------------|
| • C, C++ (5+ years) | • CUDA, OpenGL, OpenCL | • Linux, GNU | • CMake, Visual Studio | • Docker, Kubernetes |
| • Python (5+ years) | • Assembly (x86, RISC-V, PTX) | • Git, Github, | • Operating Systems | • ML, AI, PyTorch |
| • JavaScript, HTML, CSS | • Verilog, SystemVerilog | • MySQL, SQL | • Kernel programming | • Codebase organization |