Luke Hopkins

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Education

New York University   New York, NY

Major in Computer Science; Minor in Cybersecurity   Expected May 2027

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Computer Architecture, Discrete Math, Data Analysis, Operating Systems, Computer Security

Experience

CyberCrest Compliance   Carlsbad, CA

Security Engineer Intern   June 2024 – August 2024

- Collaborated with the leadership team to strategize and develop **cybersecurity mesh strategies** to acquire potential clients and maintain existing client relationships.
- Collaborated with penetration testers to ensure client systems met industry standards, including **ISO 27001, SOC 2, and HITRUST**, optimizing security posture.
- Facilitated continuous improvement by advising on security **best practices** and aligning cybersecurity frameworks with evolving industry benchmarks, ensuring client trust and compliance.

Vista Kids Dental   Vista, CA

Software Engineering Intern   June 2025 – Current

- Designed and built the Vista Kids Dental website with **Next.js (App Router), TypeScript, Tailwind**, and shadcn/ui, delivering accessible, mobile-first pages with clear navigation and fast load times.
- Integrated appointment forms with the Resend **API** by calling a secure server route that validates input and sends both office notifications and user confirmations; managed secrets via Vercel environment variables and set **SPF/DKIM** for deliverability with **error logging** and **basic rate limiting**.
- Set up Vercel **CI/CD** with preview deployments, **custom domain** and **HTTPS**, and an iterative release workflow that ships improvements regularly based on analytical feedback.

Projects

Astronomy Picture of The Day | Personal Project   September 2024

- Developed a **full-stack web application** integrating NASA's public API to deliver real-time space imagery and data through a dynamic, user-friendly interface.
- Engineered a **responsive React.js front end** with automated daily updates powered by Node.js, ensuring **100% uptime** without manual intervention.

Multi-Object Tracker | Personal Project   April 2025

- Built a **full-stack computer vision app** with Flask, OpenCV, and JavaScript to support real-time multi-object tracking from both webcam and uploaded videos, tested with 50 users at **96% accuracy**, for film production at NYU.
- Designed and deployed **interactive ROI selection, template-matching re-detection, and automated file upload/download workflows**, improving usability and reliability.
- Delivered a scalable solution with **real-time video streaming, custom file export, and responsive UI**, showcasing expertise in backend APIs, frontend integration, and computer vision.

Leadership & Activities

Luxury and Retail Association   New York, NY

Marketing Director   August 2024 – Present

- **Collaborated with the president** to refine and implement strategies that accurately reflect the luxury brand image, enhancing the organization's presence and visibility within the NYU community.
- Increased engagement by **500% across all platforms** by creating and curating both formal and informal content, tailored to audience segments to drive interaction and participation.

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Skills & Interest

Technical: Python, Java, JavaScript, TypeScript, C++, CSS, HTML, Bash, Git, PostgreSQL

Frameworks: React.js, Node.js, Flask, OpenCV, Three.js, Express

Language: Fluent in English; Conversational Proficiency in Spanish.

Interests: Rock Climbing, Fashion, Weightlifting, Running, Cooking, Soccer