# Lydia Adela Palmer

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## Professional Summary

Computer Science and Physics student with experience in full-stack development and UI engineering. Skilled in React, TypeScript, Python, and Linux, with a focus on quantum computing, technical product design, and sustainability.

## Education

**Boston University**, Kilachand Honors College *(2023 – 2027)*　　Boston, MA
Double Major: Physics & Computer Science, Minor: Economics

**Phillips Academy Andover** *(2020 – 2023)*　　Andover, MA
SAT: 1530 | Relevant Coursework: AP Computer Science, AP BC Calculus, 500-level Spanish, 500-level Physics

## Work Experience

**Livelo (Global Performance Bike Rentals)** *(2025)*　　Sydney, Australia
*Software Engineering Intern*
- Built core front-end components for Livelo's multi-step booking widget (React/TypeScript), collaborating with the CEO on UX and booking flow decisions.
- Analyzed rental data to improve pricing models and operational workflows.

**Harvard University IT** *(2023 – 2025)*　　Cambridge, MA
*IT User Assistant*
- Supported AV systems for hybrid Harvard DCE classes, ensuring reliable classroom technology.
- Provided real-time technical support and troubleshooting for faculty and students in Harvard computer labs.

**Addison Gallery of American Art** *(2022 – 2023)*　　Andover, MA
*Museum Ambassador*
- Organized artist discussions, gallery social events, and developed expertise in key works to support visitor engagement.

## Leadership & Campus Involvement

**Treasurer & Class Rep for Kilachand Honors College** *(2025 - Present)*　　Boston University
- Represent the sophomore class in discussions on academic and policy improvements within Kilachand Honors College.
- Manage treasury operations for $15,000 KLAB budget and streamline financial communications to directors.

**Kilachand Honors College Mentor** *(2024 - Present)*　　Boston University
- Support a diverse group of first-year students in navigating their transition to college life, including academic pursuits, extracurricular involvement, and personal growth.

**Member, Upsilon Pi Epsilon, Honor Society for Computing Disciplines** *(2023 - Present)*　　Boston University
- Participate in workshops and peer-led initiatives aimed at enhancing members' technical skills and complementing BU's theoretical computer science curriculum.

**Campus Climate Lab Fellow, Boston University** *(2025 - Present)*　　Boston University
- Awarded $4.2k in funding to research failures in commercial vertical farming and design a small-scale, building-integrated aeroponic system to reduce carbon emissions and improve food access in urban communities.

## Technical Projects

**3rd Place Hackathon Winner with Quantum Option Pricer** *(2025)*　　Qiskit Fall Fest (Université Paris-Saclay)
- Implemented a discrete-time quantum random walk in Python to approximate the diffusion term of the Black–Scholes PDE, using $n_p$ qubits, logarithmic grids, CRR probabilities, and $3\sigma$–$4\sigma$ bounds for correct financial behavior.

**Website Development Projects** *(2023–2025)*
- Developed three websites including a personal portfolio (HTML/CSS/JS), a React–Vite site for BU's aeroponics research project, and a bilingual ALMA nonprofit site built on Bolt.new with responsive, user-centered design.

**BU Sustainability Seed Grant Recipient — CollegeCarpool** *(2024 – Present)*　　Boston University
- Awarded $500 to develop CollegeCarpool, a cost-reduction app for student commuters.

## Skills

- **Languages**: Python, TypeScript, C++, Java
- **Data**: NumPy, SciPy, Jupyter Notebook
- **Quantum**: Qiskit, quantum circuits, simulation (Aer)
- **Design**: Figma, Matplotlib, LaTeX