KATHERINE L. POMMERENING

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EDUCATION

Dartmouth College, Hanover, NH   **June 2025**
Bachelor of Arts; Major in Computer Science Modified with Physics   **GPA: 3.93/4.0**
Honors & Awards: Citation for Academic Excellence in Full-Stack Web Development
Relevant Coursework: Full-Stack Web Development, Software Design and Implementation (Winter 2024), Machine Learning and Statistical Data Analysis (Winter 2024), Intro to UI/UX Design, Object-Oriented Programming, Foundations of Applied Computer Science (Spring 2024)

The Potomac School, McLean, VA   **June 2020**
Honors & Awards: Schoolwide Science Award, 3rd Place in JSHS National Symposium   **GPA 3.93**
ACT Score: 35

RELEVANT EXPERIENCE

Full-Stack Web Development, Dartmouth College, Hanover, NH   **Expected Start Date: March 2024**
Teaching Assistant

Hume AI, New York, NY   **September 2023–Present**
Creative Technologist Intern
- Collaborate with UI/UX designers and software developers to transform **Figma** prototypes into functional frontend components utilizing **TypeScript** and **React**, ensuring creative visions are effectively implemented.
- Spearhead UI/UX research, including competitive analysis and prototyping, to identify opportunities to enhance user experience.

Object-Oriented Programming, Dartmouth College, Hanover, NH   **March 2023–Present**
Teaching Assistant
- Hold bi-weekly office hours for 100+ students seeking help with assignments, contributing to demonstrable increase in scores.
- Lead weekly recitation sessions to teach **Java** and assist ten students with assignments and course content comprehension.
- Grade assignments and tests promptly providing individualized student feedback.

Lynch Rocket Lab, Dartmouth College, Hanover, NH   **January 2022–August 2023**
Research Assistant
- Developed data visualization in **Python** 2 and 3 to model auroral behavior from the perspective of a sounding rocket.
- Analyzed flight data from NASA's Cusp Region Experiment-2 (CREX-2) and Loss through Auroral Microburst Pulsations (LAMP) missions to better understand auroral activity; delivered research at 2022 Wetterhahn Science Symposium.
- Conducted research on the LAMP mission cited in PhD student's successful dissertation.

Aegis Mobile, Rockville, MD   **June 2022–February 2023**
Data Science Intern
- Developed machine-learning algorithms for various companies, utilizing **SQL** and **Python** to effectively make predictions.
- Collaborated with team members to research and take inventory; make strategic financial recommendations to clients.

LEADERSHIP EXPERIENCE

Freelance Photography, Hanover, NH   **March 2022–Present**
Photographer
- Create marketing photographs for Dartmouth clubs and organizations to support social media and advertising presence.
- Curate formal event image-sharing albums for Dartmouth social clubs.

PROJECTS

NatureNudge   **June 2023–August 2023**
- Worked in a partnership to design a fully-functional high fidelity prototype in **Figma** to help students engage with nature.
- Conducted market research and user testing including 11+ interviews to yield a demonstrable increase in user engagement.

MeU   **May 2023–July 2023**
- Collaborated in a small group to design and build an app to facilitate long distance relationships.
- Developed three functional frontend components in **React Native** using **APIs** to share geographic, weather, and timezone information between partners on the home screen; information was integrated with the **Cloud Firestore** backend to sync user data.
- Presented work at the Spring Technigala and continued development afterward to ultimately deploy the app on the App Store.

SKILLS & INTERESTS

Programming: Python, SQL, Java, TypeScript, React, React Native, Node.js, HTML/CSS/JavaScript, Firebase, MongoDB
Software & Tools: Adobe Creative Cloud, Anaconda, Git, Figma, Google Workspace, Microsoft Office
Interests: Skiing, Photography, Skateboarding