ALEXANDER J. PIERONI

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EDUCATION

Duke University, Trinity College of Arts & Sciences   **Aug 2021 — May 2025**

Interdisciplinary Major, Computer Science & Linguistics B.A.; Classical Languages B.A.; Minor: Classical Archaeology
- GPA: 3.97/4.00
- **Relevant Coursework:** Computational Linguistics, Digital Archaeology & Methodology, Computer Architecture, Language and Media, Introduction to Databases, Discrete Math

WORK EXPERIENCE

Undergraduate Teaching Assistant, Department of Computer Science   **Aug 2023 — Present**
- Attends weekly meetings to discuss course materials, grading guidelines, and student progress
- Grades assignments and provides feedback to improve students' understanding of data structures and algorithms
- Builds lesson plan and leads discussion sections of ~20 students to facilitate in-depth learning and material engagement
- Holds office hours to provide one-on-one assistance to students for concept clarification and academic support

Student Developer, Duke Innovation Co-Lab   **Aug 2023 — Present**
- Develops software projects for Duke's Innovation Lab, builds tools for education and foundational classes
- Holds office hours for students of any academic background to pursue novel personal projects
- Developing a web app rendition of the game Alchemy to explore resources within Duke's Innovation Co-Lab

Software Engineer & Project Management Intern, Duke University Code+ Program   **May 2023 — August 2023**
- Led collaboration with IT to enhance student package pickup, significantly reducing wait times for students
- Oversaw portal creation integrated with Package Training, transforming notifications and pickup scheduling
- Aligned project goals with stakeholders like Campus Mail Services and Microsoft for a unified vision and support
- Spearheaded React-based development, prioritizing user-centric design and reusable components Ensured seamless cross-device user experience, accommodating 8,000 users, with a successful beta in Fall 2023

LEADERSHIP & CAMPUS INVOLVEMENT

Vice President of duArts & Duke A Cappella Council President   **May 2023 — Present**
- Organizes the A Cappella Orientation Show with an audience of 1,200 and involves 7 A Cappella Groups
- Collaborates with the Duke Administration to coordinate rehearsals, performances, venues, and spaces for 140+ members
- Represents the A Cappella Council as a Vice President of the duArts Executive Board, actively voicing perspectives, contributing to strategic decisions, and shaping the Duke University arts landscape

Undergraduate Research Assistant & Field Archaeologist, Vulci 3000   **Jun 2022 — Present**
- Implemented novel digital archaeology techniques on a Roman-Etruscan urban center to examine ancient urbanization
- Acts as a primary undergraduate contributor to the Neurocities and Ruinscapes: Reconstructing Ancient Cities in VR
- Utilized 3D modeling, inscription translation, and VR to create an engaging experience of the Vicchio Stele, enhancing understanding of its context; presented at the Luigi Rovati Foundation Museum in Milan

College Counseling Consultant & Teaching Assistant, Kyros.ai   **Jan 2022 — Present**
- Crafts personalized academic sprint programs for high school students, tailored to their individual goals and aspirations
- Creates project-focused curricula, enabling students to enhance college applications through independent projects
- Facilitate individualized counseling sessions, contributing to the successful admission of over 55 students to college

Executive Board Member & Business Manager, The Pitchforks of Duke University   **Aug 2021 — Present**
- Manages 50+ annual performance opportunities worldwide and supervises the successful execution of national tours
- Maintains proper financial statements and develops financial goals for each quarter, including budgeting and forecasting
- Increased group revenue by 14% through the implementation of new fundraising strategies through alum outreach

SKILLS

- Code: Java, Javascript, ReactJS, React Native, R, Python, Ruby/Ruby on Rails, HTML/CSS, PostgreSQL, C, Assembly
- Other: Git, Docker, Metashape, ArcGIS, Photogrammetry
- Languages: English, Italian, Ancient Greek, Latin