

ALEX PETRALLO

apetrallo@gmail.com ♦ github.com/alexpetrallo ♦ alexpetrallo.github.io/ ♦ linkedin.com/in/alexander-petrallo

EDUCATION

Villanova University | BS: Computer Science – GPA: 3.2 (Expected Graduation May 2021)

Minor: Mathematics & Cognitive Science

Coursework: Algorithms & Data Structures, Discrete Mathematics, Programming Languages, Systems I&II, Databases, Coding Theory, Computer Modeling, Calculus 1/2/3

CORE COMPETENCIES

- | | | |
|----------|----------------------------|---------------------------|
| ▪ Python | ▪ HTML 5 – CSS – JS | ▪ Mentorship & Teaching |
| ▪ Java | ▪ Advanced Problem Solving | ▪ Technical Communication |
| ▪ SQL | ▪ Research & Development | ▪ Team Collaboration |

PROFESSIONAL EXPERIENCE

Astrophysics Research (NASA Grant) | Student Researcher **2019 – 2020**

- Leverage expansive expertise with Python and other techniques to research eclipsing binary star modeling
- Compile information into an engaging format for presentation at the 235th American Astronomical Society conference
- Determine methods for efficiently synthesizing light curve data for comparison to observed data

Villanova Tutoring Center – Villanova University | Tutor **2019 – Present**

- Combine exceptional leadership and interpersonal communication abilities to provide hands-on coaching
- Tutor a diverse range of students, helping them identify solutions to challenging questions and resolve issues
- Interact with students in an attentive, professional, and positive manner while holding regular office hours

Black Diamond Mogul Web Dev Team | Intern **2018**

- Honed a wide array of expertise that encompassed SQL database, frameworks, JS, and SCSS
- Wrote SQL queries and further developed an already advanced knowledge of SQL coding practices
- Collaborated proactively with team members to build a job page description from a uniform template
- Integrated the newly-created description into the existing framework while adhering to common best practices
- Built a strong knowledge base while shadowing frontend developers and team members during projects

VOLUNTEER EXPERIENCE

Association of Computing Machinery (ACM) – Villanova University | Co-President **2017 – Present**

- Enhance valuable leadership skills while managing meetings, finances, and club events
- Communicate with and act as a resource for a community focused on computer science and technology
- Currently Co-President after serving as a board member, assisting with organizing meetings and events

Julia de Burgos Program – Villanova University | Program Director & Mentor **2018 – Present**

- Cultivated top-notch communication and teaching skills while instructing and mentoring middle school students
- Helped students get excited about computer science by teaching the learning materials in fun, engaging ways
- Orchestrated meetings with staff from the Julia de Burgos school and professors at Villanova University

Villanova Skateboarding Society – Villanova University | Co-President & Founder **2018 – Present**

- Hold social and organizational meetings for the skate club community to have fun and plan future events.
- Engage the community and grow the club by holding workshops for new skaters.