37 Coffman Ave.
Malvern, PA 19355

Katelyn DePaula

3335 Walnut Street LDCH 0709
Philadelphia, PA 19104

610-755-1108 | kdepaula@seas.upenn.edu | www.linkedin.com/in/katelyndepaula

EDUCATION

University of Pennsylvania School of Engineering and Applied Science| Philadelphia, PA   May 2024
Bachelor of Science in Engineering
Major: Computer Engineering | *Minor*: Engineering Entrepreneurship
GPA: 3.94/4.0 | *Relevant Coursework (* indicates currently enrolled):* Data Structures and Algorithms*;
Introduction to Computer Systems*; Electrical Circuits and Systems*; Linux/Unix Skills; Programming Languages and Techniques

Great Valley High School | Malvern, PA   June 2020
Honors/Awards: National Merit Scholar; National Honor Society

PROFESSIONAL EXPERIENCE

Gravic, Inc. *Shadowbase Product Group Development Intern* | Malvern, PA   May 2021 – August 2021
- Collaborated in a team of 10 professional engineers to create Shadowbase software for database replication
- Developed software in C and C++ for extracting, transforming, and loading data (ETL Toolkit)
- Researched current implementation, designed new features, tested changes, and reviewed changes before committing
- Presented final ETL Toolkit changes to entire company and answered technical questions from CEO and other executives

UPennalizers Research and Development Team, *Behavior Team Lead* | Philadelphia, PA   September 2020 – Present
- Collaborate as part of the Competitive RoboCup Research Team in the General Robotics, Automation, Sensing, and Perception (GRASP) Laboratory at the University of Pennsylvania
- Implemented code changes to robot team coordination and team positioning in team of two
- Presented research at the virtual Annual UPennalizers Project Symposium
- Mentored local high school students in FIRST Robotics competitions and innovation challenges as part of outreach team

Ivy Bound Test Prep, *SAT Tutor* | Malvern, PA   September 2020 – December 2020
- Taught SAT Math and Reading for advanced high school students
- Communicated with students to convey complex ideas

LEADERSHIP & OTHER EXPERIENCE

Penn Aerospace Club, *Balloon Engineer*| Philadelphia, PA   September 2020 – Present
- Collaborate as part of the electrical balloon sub team to launch high altitude balloons
- Completed introductory tutorials in MATLAB, SolidWorks, and Python to understand application to balloon
- Learned core concepts regarding balloon launch logistics
- Became familiar with code base for electronic components in preparation for in-person meetings

Alpha Omega Epsilon, *semi-professional engineering and technical sciences sorority*| Philadelphia, PA   February 2021 – Present

Smart Women in Securities, *Investment Analyst* | Philadelphia, PA   September 2020 – Present
- Worked towards competing in a stock pitch competition through value investing techniques
- Learned financial metrics, calculations, and concepts used to measure stock properties

Women in Computer Science | Philadelphia, PA   September 2020 – Present

Penn Wind Ensemble, *Flutist*| Philadelphia, PA   September 2020 – Present

SKILLS & INTERESTS

Programming Languages: Java, C/C++, OCaml, MATLAB, SQL, some Lua, some Python
Operating Systems: Windows, Linux, HPE NonStop
Database skills: HPE File Utility Program, Guardian file system (Enscribe, SQL, flat files), Guardian procedure calls for C/C++
Interests: Private Flute Lessons (classical and jazz)