JOSHUA PARK

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EDUCATION

Purdue University   **West Lafayette, IN**
Bachelor of Science – Mathematics & Computer Science   May 2025
Coursework: Programming I (Java), C Programming, Discrete Math, Calculus I-III, Linear Algebra I-II, Data Structures and Algorithms, Differential Equations, Real Analysis

West Lafayette High School   **West Lafayette, IN**
Core 40 Diploma with Academic Honors   May 2021

EXPERIENCE

Sub-Zero Group, Inc.   **Madison, WI**
Software Quality Assurance Co-op   January 2023 – August 2023
- Worked as part of an Agile Scrum team to develop and maintain software QA infrastructure utilized by over 800k appliances, actively participating in all stages of the software development lifecycle
- Led design teams to develop and implement modular and robust test cases in Python while emphasizing high quality code and documentation, greatly reducing general development overheads in areas like code review and developer onboarding
- Collaborated with mobile development team to begin replacing manual testing with automated integration tests for Flutter applications, streamlining regression testing and playing an integral part in increasing user ratings from 1.25/5.0 to 4.8/5.0

Purdue University Rosen Center for Advanced Computing (RCAC)   **West Lafayette, IN**
Research Support Developer   April 2021 – Present
- Create shell scripts to collect and analyze performance data to find the most efficient environment for popular computations
- Write applications in Python to monitor telemetry data from clusters and verify allocated resources are being utilized
- Maintain unit test suite used to check HPC cluster health and assert that various modules load correctly

Purdue University Recreation and Wellness   **West Lafayette, IN**
Climbing Wall Supervisor, Belay Staff   May 2022 – Present
- Supervise patrons while prioritizing safety and standard procedures, using clear communication and strong interpersonal skills

LEADERSHIP

Purdue Overwatch Club   **West Lafayette, IN**
President (2022-2023), Officer (2021-2023), Team Captain (2021-2023)   May 2021 – Present
- Served as primary representative and contact between the club and Purdue University's Esports coordinators
- Selected as one of four student organizations to join the first university-sponsored esports program
- Oversaw organization of <40 members among seven teams and registration for the National Esports Collegiate Conference

Purdue University Mathematics Society   **West Lafayette, IN**
Marketing/Outreach Officer   September 2021 – May 2022
- Organized announcements for weekly club events, designed posters to advertise club events, built club social media accounts

PROJECTS

GitHub   github.com/joshpark8
pybench   A CLI tool used to benchmark RCAC HPC performance against multiple data types and environments
TempMonitor   An ongoing project with the goal of remotely monitoring and controlling pet hedgehog cage temperature

SKILLS

Languages   Python, Java, Bash, C, Dart/Flutter
Software   Git, Vim, GitHub, Microsoft Azure, Splunk, VS Code, LaTeX, Microsoft Office, Google Suite
Practices   Continuous Integration, Agile, Scrum, Software Automation, DevOps, Software Quality Assurance