

JOSHUA PARK

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EDUCATION

Purdue University

Bachelor of Science – BS, Mathematics & Computer Science

Relevant Coursework: Object Oriented Programming, C Programming, Data Structures & Algorithms, Calculus I-III, Discrete Mathematics, Differential Equations, Linear Algebra I-II, Real Analysis

West Lafayette, IN

May 2025

West Lafayette High School

Core 40 Diploma with Academic Honors

West Lafayette, IN

May 2021

EXPERIENCE

Purdue University Rosen Center for Advanced Computing (RCAC)

Research Support Developer

West Lafayette, IN

April 2021 – Present

- Create tools to collect and analyze performance data to find the most efficient environment for different use cases
- Write applications in Python to monitor telemetry data from clusters and verify allocated resources are being utilized
- Maintain unit test suite used to check cluster health and assert that various modules load correctly

Purdue University Recreation and Wellness

Climbing Wall Supervisor, Belay Staff

West Lafayette, IN

May 2022 – Present

- Assist patrons by providing equipment and belay services while prioritizing safety and standard climbing procedures

Sub-Zero Group Inc.

Software Quality Assurance Co-op

Madison, WI

January 2023 – August 2023

- Worked as part of an Agile Scrum team to develop and maintain software QA infrastructure utilized by IoT modules in over 800k appliances worldwide
- Led design teams to develop and implement modular and robust test cases 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, streamlining regression testing, and playing an integral part in a rise in user ratings from 1.3/5.0 to 4.8/5.0

LEADERSHIP

Purdue Overwatch Club

President, Officer, Team Captain

West Lafayette, IN

May 2021 – January 2023

- Primary representative/contact between the Overwatch Club and the University's esports coordinators
- Selected as one of four organizations to join Purdue University's inaugural university-sponsored esports program
- Oversaw organization and registration of >40 members for the National Esports Collegiate Conference

Purdue University Mathematics Society

Marketing/Outreach Officer

West Lafayette, IN

September 2021 – May 2022

- Organized announcements for club events, designed posters to advertise club events, built club social media accounts

PROJECTS

GitHub

www.github.com/joshpark8

pybench

A CLI tool used to benchmark RCAC HPC performance against multiple data types and environments

TempMonitor

A project with the goal of monitoring and/or controlling my hedgehog's cage temperature

SKILLS

Languages

Python, Java, Bash, C, Dart, Flutter

Software

Git, GitHub, Microsoft Azure, Splunk, VS Code, MS Office, Google Suite

Practices

Continuous Integration, Agile, Scrum, Software Automation, DevOps, Software QA