

# JOSHUA PARK

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## EDUCATION

### Purdue University

West Lafayette, IN

*Bachelor of Science – Mathematics and Computer Science*

December 2025

Coursework: Discrete Mathematics, Elementary Linear Algebra, Linear Algebra 2, Programming I (Java), C Programming, Data Structures and Algorithms (C++), Calculus I-III, Ordinary Differential Equations, Real Analysis, Numerical Methods, Advanced Problem Solving, Abstract Algebra Honors, Galois Theory Honors, Analysis and Theory of Algorithms Honors

## EXPERIENCE

### Software Quality Assurance Co-op

Madison, WI

*Sub-Zero Group, Inc.*

January 2023 — August 2023

- Worked as a part of an Agile Scrum team to develop and maintain critical software QA infrastructure utilized by IOT devices in over 800k appliances worldwide, 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 replace manual mobile app 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

### Research Support Developer

West Lafayette, IN

*Purdue University Rosen Center for Advanced Computing (RCAC)*

April 2021 — January 2024

- Created shell scripts to collect and analyze performance data to find the most efficient environment for popular computations
- Wrote applications in Python to monitor telemetry data from clusters and verify allocated resources are being utilized
- Maintained unit test suite used to check HPC cluster health and assert proper loading of various popular modules

### Climbing Wall Supervisor, Belay Staff

West Lafayette, IN

*Purdue University Recreation and Wellness*

May 2022 — Spring 2024

- Supervised climbing activities to ensure patron safety by enforcing guidelines and maintaining a secure environment.
- Conducted regular equipment inspections and collaborate with team members to ensure optimal facility maintenance.
- Assisted patrons with climbing techniques and equipment use, enhancing their overall experience.
- Demonstrated strong interpersonal skills by fostering a welcoming atmosphere and clear communication among staff and climbers.

## LEADERSHIP

### President (2022-2023), Officer (2021-2023), Team Captain (2021-2023)

West Lafayette, IN

*Purdue Overwatch Club*

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

### Marketing/Outreach Officer (2021-2022), Member (2021-2025)

West Lafayette, IN

*Purdue University Mathematics Society*

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](https://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/Shell Scripting, C, 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