

# JOSHUA PARK

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## EDUCATION

### Purdue University

West Lafayette, IN

*Bachelor of Science – Mathematics and Computer Science*

December 2025

Coursework: Discrete Mathematics, Linear Algebra I-II, Programming I (Java), C Programming, Data Structures and Algorithms (C++), Analysis and Theory of Algorithms Honors, Calculus I-III, Ordinary Differential Equations, Foundations of Analysis, Numerical Methods, Advanced Problem Solving, Abstract Algebra Honors, Galois Theory 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, emphasizing high quality code and documentation and greatly reducing development overheads in areas such as code review and developer onboarding
- Collaborated with mobile development team to replace manual mobile apptesting 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 — January 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 and registration of <40 members among seven teams for the National Esports Collegiate Conference

### Marketing/Outreach Officer (2021-2022)

West Lafayette, IN

*Purdue University Mathematics Society*

September 2021 — Present

- 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

## SKILLS

### Languages

Python, Java, Bash/Shell Scripting, C, C++, Dart/Flutter

### Software

Git, GitHub, Vim, Microsoft Azure, Splunk, Visual Studio Code, LaTeX, Microsoft 365, Google Suite

### Practices

Continuous Integration, Agile, Scrum, Software Automation, DevOps, Software Quality Assurance