

# Sean Lee

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## Education

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### Purdue University - West Lafayette, IN

Master of Science in Computer Science

May 2026

Bachelor of Science in Computer Science

May 2025

GPA: 3.86/4.00

Relevant Coursework: Distributed Systems, Computer Networks, Operating Systems, Software Engineering, Machine Learning Systems, Data Structures and Algorithms, Object Oriented Programming

## Experience

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### Software Engineering Intern

May 2024 - August 2024

Maxar Technologies

- Worked on command and telemetry management for NASA's Power and Propulsion Element
- Designed and developed a RESTful API using Python to enhance data access for downstream teams
- Increased code coverage by writing unit and integration tests with PyTest
- Handled SQL database and application images utilizing Docker Compose and AWS ECR

### Computing Assistant

January 2024 - Present

Rosen Center for Advanced Computing

- Built a command line dashboard to automate the process of querying user information using shell scripts and Python
- Contributed to user guides for the Rosen Center's various High Performance Computing clusters
- Troubleshooted user issues and answered questions on topics such as UNIX tools and job schedulers

### Teaching Assistant

January 2024 - May 2024

Purdue University

- Led weekly office hours for the undergraduate operating systems course
- Developed programming assignments in C and x86 assembly that test student understanding of concepts such as process, memory, and device management

### Undergraduate Researcher

August 2022 - Present

The Data Mine - Purdue University

- Led a student group collaboration with Sandia National Laboratories to address flight stitching, successfully assembling flight tracks
- Implemented an algorithm in Python to match and merge flight pieces, utilizing feature similarity and machine learning techniques which led to 80% accuracy

### Data Science Intern

June 2022 - August 2022

American First Finance

- Conducted comprehensive analysis of the company's market performance across various metropolitan statistical areas, identifying high-potential growth areas
- Automated data processing tasks using Python scripts, enabling efficient transformation of raw data into interactive charts and graphs

## Projects

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### Paxos Implementation

- Implemented the Paxos consensus algorithm for distributed systems in Java ensuring robust and efficient agreement across nodes
- Tested against a vast suite of search tests to validate the correctness of the implementation

### Calypso

- Developed a full stack web app that locates available classrooms for students to study in
- Created a user-friendly and intuitive user interface using React.js
- Built a reliable backend API that parses and formats classroom data using Go

## Activities

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### LaunchPad (President)

Feb 2022 - Present

- Led and organized a mentoring program, facilitating the pairing of upperclassmen mentors with freshman students passionate about computer science and programming
- Planned and coordinated logistics for events, ensuring the smooth execution of programs involving 100+ participants