

# Abhay Harpalani

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## EDUCATION

### University of Illinois Urbana-Champaign

Urbana, IL

Bachelor of Science in Computer Engineering

Expected Dec. 2026

*Dean's List (Top 20% of class)*

GPA: 3.85

Courses: Data Structures & Algorithms, Distributed Systems, Database Systems, Operating Systems

## EXPERIENCE

### Software Engineer Intern

May 2025 - August 2025

*Savvly*

*Boulder, CO*

- Designed the company's first comprehensive JUnit test suite, increasing test coverage from 0% to 70%
- Developed REST API endpoints using Java and SpringBoot to interact with core company PostgreSQL Database
- Refactored code using Controller-Service-Repository pattern to reduce technical debt and streamline development

### Undergraduate Research Assistant

May 2025 - Present

*UIUC International and Area Studies Library*

*Urbana, IL*

- Wrote Python script to remove stale/duplicate web index entries, cut index size by 50% to improve search quality
- Documented key processes and workflows, creating reusable resources and presented findings to library leadership

### Web Developer and Lab Monitor

Oct. 2023 – Present

*UIUC OpenLab Makerspace*

*Urbana, IL*

- Redesigned website with a modern, responsive interface, enhancing OpenLab user experience
- Serve as OpenLab board member, giving weekly tours to ~30 students and teaching about equipment safety
- Designed advertising posters and electronic billboards, resulting in 2x increase in student usage of OpenLab

## EXTRACURRICULARS

### Tech Lead and Web Developer

Apr. 2024 - Present

*Illinois Global Review*

*Urbana, IL*

- Spearheaded development of a news website using Python, HTML, and CSS
- Implemented user authentication, article upload, and editing workflows using the Flask web framework
- Collaborated with editorial teams to ensure seamless content management for administrators

### Vice President

Jan. 2024 - Present

*Out in STEM*

*Urbana, IL*

- Directed outreach and networking events, growing membership by 5x
- Managed chapter operations, coordinating meetings, event logistics, and promoting diversity and inclusion

### Project Lead

Sept. 2023 - May 2025

*Vex Robotics Club*

*Urbana, IL*

- Trained reinforcement learning models to play Blackjack, Pong, and Lunar Lander using Deep Q-Network methods
- Built an Arduino-based drone, implementing C++ control systems algorithms to achieve autonomous flight

### Project Manager

Aug. 2019 – Jan. 2022

*Eagle Scout Project*

*Fremont, CA*

- Led the design, approval, and construction of an arbor and planter for the Quarry Lakes Demonstration Garden
- Supervised team of 15 scouts and adults, coordinating materials, logistics, & construction efforts for project success
- Earned Eagle Scout rank, demonstrating leadership, project management, and community impact

## TECHNICAL SKILLS

**Languages:** Python, C, C++, Java, Go, SQL, JavaScript, HTML/CSS

**Programs:** Ghidra, Fusion 360, Adobe Illustrator, Photoshop

**Clubs:** Out in STEM, VEX Robotics, SIGPwny Cybersecurity Club, Synton Amateur Radio Club